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## FOR IBPS RRB

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## IBPS RRB PO Mains Previous Year Questions 2022

**Directions (1-4):** Read the given information carefully and answer the questions based on it:

Seven persons named T, G, H, Y, D, K and L deposit some amount of money (in rupees; integer value) (but not in the same order as given) on different days of the week from Monday to Sunday to their bank accounts. No person deposit same amount of money.

More than three persons deposit between K and D and one of them deposits the lowest money. Average of the highest and lowest sum of money is rupees 1625 which is rupees 25 more than the money deposited by T who deposits just after K. Equal number of persons deposited the money before and after T and G respectively and ratio between the money of T and G is 10:7. The money deposited on Friday is highest but not deposited by Y and H. Money deposited on Monday is thrice the difference between the money deposited on Wednesday and Saturday. The number of persons deposit money before H is less than the number of persons deposit money after H and his money is rupees 20 less than the money deposited on Tuesday. One of the persons deposits rupees 1050. Ratio between the money deposited on Thursday and Sunday is 6:5 respectively.

**Q1. What is the difference between the money deposited by Y and K?**

- (a) Rupees 480
- (b) Rupees 220
- (c) Rupees 120
- (d) Rupees 210
- (e) None of these

**Q2. On which of the following day, the third highest amount of money is deposited?**

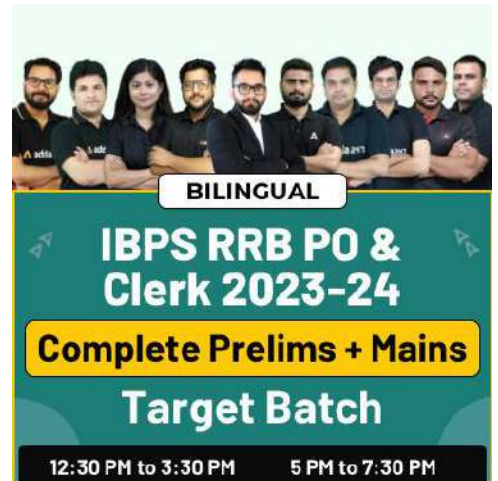
- (a) Tuesday
- (b) Thursday
- (c) Monday
- (d) Wednesday
- (e) None of these

**Q3. Which of the following persons deposited money just before H?**

- (a) T
- (b) G
- (c) The one who deposits four days before L
- (d) None of these
- (e) The one who deposited money on Thursday

**Q4. Four of the following five are similar in a certain manner and related to a group, which among the following does not belong to the group?**

- (a) K-H
- (b) Y-G
- (c) L-D
- (d) T-Y
- (e) K-Y



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**Directions (5-8):** In each question, some statements are showing relationship between different elements and are followed by two conclusions. Assuming the given statements are true, now find out which of the two conclusion(s) is/are definitely true.

- (a) Only I is true
- (b) Only II is true
- (c) Either I or II is true
- (d) Neither I nor II is true
- (e) Both I and II are true

**Q5. Statements:**  $V=K>M=E\geq R$ ,  $E<W=Q\leq S=H$

**Conclusions:** I.  $K<S$                       II.  $V\geq H$

**Q6. Statements:**  $P<B\leq T<C$ ,  $L\geq P=V\geq S\geq F=R$

**Conclusions:** I.  $C>F$                       II.  $S\leq T$

**Q7. Statements:**  $B=A\geq C=D$ ,  $W=P\geq X=C>Z$ ,  $S<H<J=Z$

**Conclusions:** I.  $B>H$                       II.  $S<W$

**Q8. Statements:**  $V\geq S=G\geq C\leq H=J\leq N$ ,  $L>C=A$

**Conclusions:** I.  $L>J$                       II.  $V\leq J$

**Directions (9-12):** A word and number arrangement machine when given an input line of numbers and words rearranges them following a particular rule in each step. The following is an example of rearrangement.

**Input:** 47 audio dictum 99 crore 65 glossy myth 12 83

Step I: 99 47 audio crore 65 glossy myth 12 83 dictum

Step II: glossy 99 47 audio crore 65 myth 12 dictum 83

Step III: 65 glossy 99 47 audio myth 12 dictum 83 crore

Step IV: audio 65 glossy 99 myth 12 dictum 83 crore 47

Step V: 12 audio 65 glossy 99 dictum 83 crore 47 myth

Step V is the last and final step of the given input. With the same logic, find the steps and final output for the input given below.

**Input:** 23 47 model 52 reader 66 travel egg 31 answer

**Q9. Which of the following element is 3<sup>rd</sup> to the left of 9<sup>th</sup> element from left end in penultimate step?**

- (a) 23
- (b) Travel
- (c) Reader
- (d) 66
- (e) None of these

**Q10. How many elements are in between 'model' and '52' in step II?**

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q11. What is the highest consonant in the 2<sup>nd</sup> word from right end in last step?**

- (a) W
- (b) M
- (c) V
- (d) R
- (e) None of these

**Q12. In which of the following step 'travel 31 reader' is found in the same manner?**

- (a) Step IV
- (b) Step II
- (c) Step III
- (d) Step V
- (e) There is no such step

**Q13. India is the world's most populous democracy and will, by 2030, be the most populous country, overtaking China. And it is young — there are more Indian 10-year-olds than there are Australians. With more than a dozen distinct languages, scripts and religions, India is multiculturalism on the grandest scale.**

**Which of the following is not in the line of given statement?**

- (I) Australia will be the most popular study destination for Indian students.
  - (II) India is the cradle of the human race, the birth place of human speech, the mother of history, the grandmother of legend, and the great grandmother of tradition.
  - (III) In India there is a political equality which provides for the participation of all people without any discrimination as to gender, race, caste and colour.
- (a) Only II and III
  - (b) Only III
  - (c) Only I and III
  - (d) Only I
  - (e) All I, II and III

**Q14. The collapse of a great wall of garbage in east Delhi's Ghazipur area, sweeping people and vehicles into a nearby canal, is a stark reminder that India's neglected waste management crisis can have deadly consequences. More than a year after the notification of the much-delayed Solid Waste Management Rules, cities and towns are in no position to comply with its stipulations, beginning with the segregation of different kinds of waste at source and their scientific processing.**

**What may be the fallout of laxity towards waste management?**

- (I) Organic Waste should use to make affordable household biogas plants and production of methane for power generation.  
(II) Waste materials can worsen air pollution level due to which people will face issue in breathing.  
(III) Supreme court comes in action after PIL has been filed by group of peoples in Delhi.
- (a) Only I and III  
(b) Only II and III  
(c) Only II  
(d) Only III  
(e) None of them

**Q15. In an eight-floor building where floors are numbered as 1 to 8 from bottom to top respectively, C lives on 5<sup>th</sup> floor. Three persons live between C and A who lives six floors below E. N lives just below G but above V. R lives above U. Find how many persons live between U and A?**

- (a) Five  
(b) Six  
(c) Three  
(d) Two  
(e) Four

**Directions (16-19): Read the given information carefully and answer the questions based on it:**

Riya and Mohan leave their homes and visit the temple where they meet each other. Riya left her home and walks 26m in west to reach point P. Here, she takes two consecutive right turns of 12m and 18m and reaching point Q and point R respectively. From point R, she turns 90 degrees anticlockwise and reached point S after walking 14m. Now, she turns right and reached point T after walking 50m. Here, she takes a right tuns and walks 26m to reach point U which is 22m east of temple.

Mohan left his home and walks 34m in north to reach point A. Here, he takes two consecutive left turns of 21m and 17m and reached point B and point C respectively. From point C, he turns right and walks 32m to reach point D and from here, he walks 10m towards north to reach point E. Now, he turns right and walks 20m to reach point F which is 17m south of temple.

**Q16. What is the difference between the distances covered by Riya and Mohan from their houses to temple?**

- (a) 27m  
(b) 20m  
(c) 17m  
(d) 24m  
(e) None of these

**Q17. In which directions is point S with respect to point B?**

- (a) South-east  
(b) West  
(c) North-west  
(d) South  
(e) None of these

**Q18. What is the distance and directions of Riya's home with respect to temple?**

- (a) 14m, south-west
- (b) 18m, west
- (c) 20m, north-west
- (d) 20m, west
- (e) None of these

**Q19. Four of the following five pairs are similar in a certain manner and forms a group, which of the following is dissimilar from the group?**

- (a) P-T
- (b) D-temple
- (c) C-U
- (d) Q-Mohan's home
- (e) F-B

**Q20. The Delhi International Airport Limited (DIAL) has said that the random testing for corona will be carried out in coming week on passengers coming from states where the cases are increasing. "After collection of samples, the travelers would be allowed to exit. However, those passengers who are found positive, shall be mandatorily quarantined as per the protocol of ministry of health and family welfare.**

**Which of the following can be assumed from the above statement?**

- (I) Corona cases may increase in upcoming week.
  - (II) Delhi Government will announce for lockdown in the state.
  - (III) Domestic and International flights will be temporarily shut down within a month.
- (a) Only II and III
  - (b) Only III
  - (c) Only I and III
  - (d) Only II
  - (e) Only I

**Directions (21): Most of the competitive examinations are in objective nature have several advantages over the subjective ones. Evaluation of subjective type involves human elements and therefore sometimes subject to vagaries. Assessment of subjective needs good subjective knowledge while objective has the advantage of almost error free evaluation. Negative marking in objective evaluation is good for examination system.**

**Q21. Which of the following diminish the advantage of objective assessment over subjective one?**

- (I) The subjective types are bound to have human error.
  - (II) Subjective evaluation takes more time in assessment as compare to objective one.
  - (III) A fortunate person can get good marks in just guessing the answer instead of negative marking in objective test.
- (a) Only I and III
  - (b) Only II
  - (c) Only I
  - (d) Only III
  - (e) All of three



**Directions (22-25): Study the following information carefully and answer the questions given below:**

Eight persons- P, Q, R, S, T, U, V and W work in a company at different designations - General Manager (GM), Managing director (MD), Deputy General Manager (DGM), Assistant General Manager (AGM), Manager (MG), Assistant Manager (AM), Section Officer (SO), and Clerk (CL). The designations are given in descending order such that - GM is the senior-most designation and Clerk is the junior-most designation. Each of them likes different fruits- Mango, banana, Kiwi, Orange, grapes, Papaya, Pears and Apricot. All the information is not necessarily in the same order.

The one who likes orange is three designations senior to U. Neither DGM nor AGM likes orange. Three persons are designated between T and U. The one who likes Kiwi is immediately senior to the one who likes Grapes. T is junior to the one who likes Kiwi. Not more than four persons are designated between U and the one who likes Kiwi. Odd number of designations are in between U and the one who likes grapes. V is three designations senior to the one who likes Grapes. The one who likes Apricot is junior to V and immediately senior to P. At least one person is designated between P and U. The one who likes Pears is two designations senior to the one who likes Banana. R is immediately senior to the one who likes Banana. S neither likes Orange nor likes Pears. The one who likes Mango is senior to the one who likes Papaya. Q is senior to W who is junior to the one who likes Mango.

**Q22. Who among the following likes Papaya?**

- (a) The one who is clerk
- (b) S
- (c) P
- (d) The one who is Section Officer
- (e) Q

**Q23. How many persons are designated between V and the one who is immediately senior to the one who likes Banana?**

- (a) Four
- (b) Two
- (c) Five
- (d) Three
- (e) Six

**Q24. Which among the following statement(s) is/are true?**

- (a) More than two designations gap is between V and the one who likes Kiwi
- (b) U is senior to Q
- (c) W likes Grapes
- (d) Q is just junior to W
- (e) All are true

**Q25. If S is related to the one who likes Grapes in the similar way P is related to the one who likes Orange, then who among the following is related to the one who likes Pears?**

- (a) T
- (b) S
- (c) U
- (d) W
- (e) R

**Directions (26-28): Study the following information carefully and answer the questions given below:**

In a family of 10 members there are three generations. Y is daughter-in-law of K's only sibling. U is brother-in-law of K. J is parent of K. Z is brother-in-law of J and vice versa. K is niece of X who is not sibling of Z. Z is unmarried member of the family. V is sibling of U. K is not spouse of V. Gender of U and W is same but different from T. R is elder than T. Number of females are more than number of males.

**Q26. How V is related to T?**

- (a) Brother-in-law
- (b) Brother
- (c) Sister-in-law
- (d) Nephew
- (e) Uncle

**Q27. Who among the following is the grandchild of J?**

- (a) Y
- (b) The one who is spouse of T
- (c) The one who is niece of X
- (d) The one who is nephew of V
- (e) K

**Q28. What is the ratio of male to female members in the family?**

- (a) 2:3
- (b) 3:2
- (c) 4:1
- (d) 1:4
- (e) 3:7

**Q29. If in the given number "6493781539" the first five digits are arranged in ascending order from left to right then the last five digits are arranged in descending order from left to right then what will be the resultant value when the digit which is fifth from the left end is divided by the digit which is second from the right end in the number thus formed after the arrangement?**

- (a) 2
- (b) 3
- (c) 7
- (d) 4
- (e) 1

**Directions (30-31): Most of the competitive examinations are in objective nature have several advantages over the subjective ones. Evaluation of subjective type involves human elements and therefore sometimes subject to vagaries. Assessment of subjective needs good subjective knowledge while objective has the advantage of almost error free evaluation. Negative marking in objective evaluation is good for examination system.**

**Q30. What can be inferred from the word "vagaries" used in given statement?**

- (a) Evaluation being error-ridden
- (b) That which cannot be controlled and can influence a situation
- (c) Mistakes in evaluating a specific paper
- (d) Both (a) and (b)
- (e) Both (b) and (c)

**Q31. Which among the following inference can best attributed on the basis of given statement?**

- (I) Purpose of Examinations
  - (II) Advantages of objective evaluation
  - (III) Positives of the negatives
  - (IV) Subjective over objective
- (a) Only I and IV
  - (b) Only III
  - (c) Only II and III
  - (d) Only IV
  - (e) Only II and IV

**Directions (32-35):** In each of the questions given below four statements are followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow(s) from the given statements disregarding commonly known facts.

**Q32. Statements:** Only a few food is fresh

Some frame is not flop

All fresh is frame

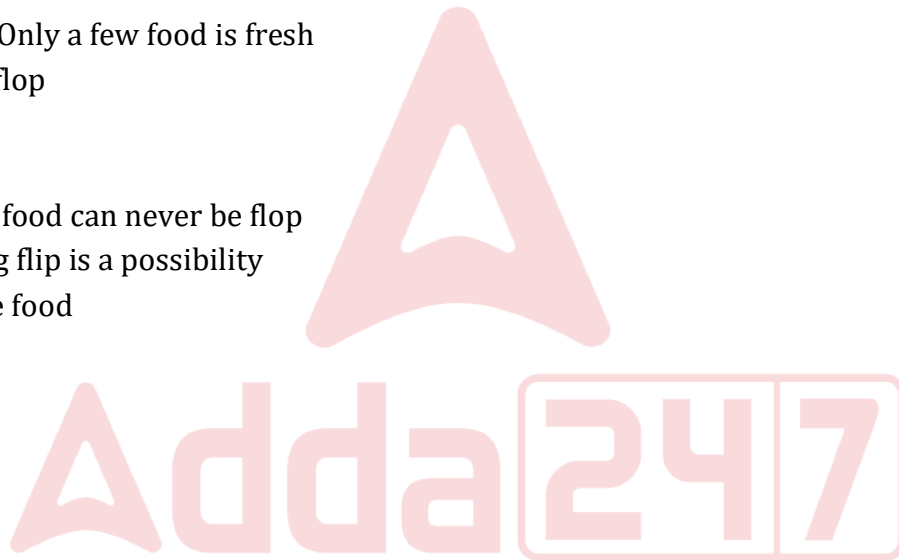
Some flip is flop

**Conclusions:** I. All food can never be flop

II. Some fresh being flip is a possibility

III. All frame can be food

- (a) Both I and II
- (b) Both II and III
- (c) Only III
- (d) Both I and III
- (e) None follows



**Q33. Statements:** Only winter is summer

Only a few spring is winter

No rainy is spring

Some rainy is autumn


**Conclusions:** I. Some summer is not autumn

II. All autumn can never be spring

III. All winter being rainy is a possibility

- (a) Both I and II
- (b) Both II and III
- (c) Only III
- (d) Both I and III
- (e) None follows

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**Q34. Statements:** All dream are mare

Some mare is risk

Only a few risk is target

All risk is rank

**Conclusions:** I. All rank being target is a possibility

II. Some dream is not risk

III. All rank can be mare

(a) Both I and II

(b) Both II and III

(c) Only III

(d) Both I and III

(e) All follow

**Q35. Statements:** No red is yellow

All red is white

Only a few black is white

Some black is blue

**Conclusions:** I. All blue being red is a possibility

II. Some white is not black

III. Some yellow being blue is not a possibility

(a) Both I and II

(b) Both II and III

(c) Only III

(d) Both I and III

(e) Only I

**Directions (36):** In each of the questions given below four statements are followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically doesn't follow from the given statements disregarding commonly known facts.

**Q36. Statements:** Only a few sheet is bag

All paper is bag

No pen is paper

Some sheet is not scale

**Conclusions:** I. All sheet can never be scale

II. All bag being pen is a possibility

III. Some sheet is not bag

(a) Only I

(b) Both II and III

(c) Only II

(d) Both I and III

(e) Only III

**Directions (37-40): Study the following information carefully and answer the questions given below:**

Ten persons sit in two parallel rows such that five persons sit in each row. In row 1- P, Q, R, S and T sit and all of them face south **directions** while in row 2- A, B, C, D and E sit and all of them face north **directions**. Persons sit in row 1 face the persons sit in row 2 and vice versa. Each of them likes different colours- Pink, Blue, Red, Green, Yellow, Grey, Black, White, Magenta, and Cyan. All the information is not necessarily in the same order.

The one who likes pink faces the one who sits second to the left of C. T sits immediate right of the one who likes pink. Two persons sit between T and the one who likes blue. B sits second to the left of A and doesn't face T. The one who likes magenta is the only immediate neighbor of B. D sits second to the left of the one who faces S. Three persons sit between the one who likes grey and yellow. The one who likes green faces the one who likes yellow. The one who likes cyan sits adjacent to R. Q sits adjacent to T and to the left of P. The one who likes black sits adjacent to the one who likes red. The one who likes white faces the one who is an immediate neighbor of the one who likes red.

**Q37. Who among the following likes Magenta colour?**

- (a) B
- (b) D
- (c) P
- (d) Q
- (e) S

**Q38. Which among the following statement(s) is/are true?**

- (a) R sits to the left of the one who likes Pink colour
- (b) More than two persons sit between R and P
- (c) Q sits exactly at the middle of row 1
- (d) T faces D
- (e) All are true

**Q39. Four of the following five belong to a group in a certain way, who among the following does not belong to that group?**

- (a) The one who likes red colour
- (b) The one who likes blue colour
- (c) B
- (d) P
- (e) The one who likes grey colour

**Q40. If all the persons sit in alphabetical order (position of colours remains same) from left to right in row 1 then who among the following person likes white colour?**

- (a) P
- (b) Q
- (c) S
- (d) R
- (e) T



**Directions (41-46): Read the given passage and answer the following questions based on that**

A popular theme at seminars this autumn is de-colonisation. The concept notes explaining the theme treat it like a new deodorant — much required and expected to cure a chronic problem for good. Not that earlier generations had ignored it, but perhaps they lacked determination and **propitious** circumstances. The urge to undo the various legacies of colonisation was always there. Why the previous struggles failed arouses little curiosity in today's crusaders against the colonial mindset. As an ideology, colonialism has an inbuilt device to deal with reactive moods of the colonised. These moods vary according to economic and political seasons. Citizens of former colonies typically feel more comfortable when they are passing through a good phase of their collective economic life. Conversely, they get twitchy when growth slows down. Another mood swinger is politics. The colonial phase of history is a great political resource. In a multi-party system, it is easy to **invoke** the ghost of colonial legacy. Once aroused, the ghost performs reliable tricks to attract public attention.

De-colonisation received a major official push in several African colonies after they \_\_\_\_\_ freedom. In education, language was a focus area, but the choice did not prove wise. Entrenched social inequalities came in the way of ideal goals. In India, we have experienced this trajectory several times over, but the fascination of radical stances has not diminished. Removal of English is a big draw among political parties which promise to exorcise India's mind, body and soul from the ghost of colonialism. Alas, among the youth, English shows no sign of becoming unpopular. As Snigdha Poonam has documented in her remarkable study of provincial youth culture, 'spoken English' has emerged as a major component of the coaching industry.

**Q41.** As per the passage, why do generations vary in their propensity for resentment towards colonial mindset?

- (a) People slowly find their way to deal with it; either by adaptation or through complete renunciation.
- (b) With generations, people tend to become more acclimatized to colonization or colonial mindset
- (c) Resentment against colonial mindset only excites when the political and economical situation is not agreeable to the people
- (d) None of these
- (e) All of these

**Q42.** Why does de-colonization fail to achieve the optimum result in the colonized countries?

- (a) The sociocultural milieu of the colonized is ingrained with radical colonial beliefs.
- (b) In the process of decolonization of the education system, language failed to emancipate itself from the colonial hegemony
- (c) People of the colonized countries are inclined towards the seemingly flamboyant colonial culture.
- (d) Only (a) and (b)
- (e) Only (b) and (c)

**Q43.** Which of the following options is/are TRUE with regarding to the passage?

- (A) The dominance of English-speaking course has pervaded the Indian coaching industry.
- (B) Many political parties designed the agendas around the prevalence of English language in Indian society
- (C) The Indian society has always seen an aggressive opposition against Colonization.

- (a) Only (A)
- (b) Only (B), and (A)
- (c) Only (C)
- (d) Only (A) and (C)
- (e) All of these

**Q44.** Which of the following words can fit into the given blank in the passage?

- (a) attained
- (b) dejected
- (c) flourished
- (d) synchronized
- (e) trailed

**Q45.** Which of the following words is the synonym of “propitious” as highlighted in the passage?

- (a) achromatic
- (b) opportune
- (c) succinct
- (d) Dismal
- (e) All of these

**Q46.** Which of the following words is the antonym of “invoke” as mentioned in the passage?

- (a) beseech
- (b) supplicate
- (c) solicit
- (d) discourage
- (e) None of these

**Directions (47-52):** In the given passage, few words have been highlighted, which may or may not be correctly used. Choose the word corresponding to each serial number that can replace the highlighted word without altering the intended meaning. If the highlighted word is correctly placed, then choose “No replacement needed” as your answer choice.

The Reserve Bank of India’s (RBI) concept note on central bank digital currency (CBDC) and its plans to start pilot launches of this digital form of currency notes is a/an **residual (47)** point in the financial sector. This is because CBDCs will substantially change the very nature of money and its functions. It will also redefine the financial **arbitrage (48)** of the economy and alter the ways of conducting monetary policy. In short, it is a game changer that will significantly alter the financial landscape even more substantially than the **introduction (49)** of credit and debit cards in the 1950s.

A major attribute of the CBDC is its offline features that would make it possible to use it in **peril (50)** locations and even when electrical power or mobile networks are not available. This offers great potential for **upheaving (51)** payment costs and reaching banking facilities to the disadvantaged and the unbanked. The offline functionality can also gather digital **space (52)** of the unbanked population and help ensure easier delivery of credit.

**Q47.**

- (a) depletion
- (b) inflexion
- (c) cherished
- (d) staggered
- (e) No replacement needed

**Q48.**

- (a) peripheral
- (b) landscape
- (c) level
- (d) protocol
- (e) No replacement needed

**Q49.**

- (a) impulse
- (b) conclusion
- (c) deviation
- (d) impart
- (e) No replacement needed

**Q50.**

- (a) divertive
- (b) resistant
- (c) affluent
- (d) remote
- (e) No replacement needed

**Q51.**

- (a) saturating
- (b) diversifying
- (c) reducing
- (d) distancing
- (e) No replacement needed

**Q52.**

- (a) footprint
- (b) validity
- (c) transition
- (d) sampling
- (e) No replacement needed



**Directions (53- 59): Read the given passage to answer the following questions.**

Globally, food and nutrition security continue to be undermined by the impacts of the COVID-19 pandemic, climate change, spiralling food inflation, conflict, and inequality. Today, around 828 million people worldwide do not have enough to eat and over 50 million people are facing **severe** hunger.

The Hunger Hotspots Outlook (2022-23) forebodes escalating hunger, as over 205 million people across 45 countries will need emergency food assistance to survive. Without food and nutrition security for all, there can be no peace and no prosperity. Only through collective and transformational action to strengthen agri-food systems, rectifying storage problem, through better production, better nutrition, a better environment, and a better life, can we meet our promise to end hunger by 2030.

\_\_\_\_\_ food production is fundamental to attaining the goal of zero hunger. India has had an inspiring journey towards better production and achieving self-sufficiency and is now one of the largest agricultural product exporters in the world. During 2021-22, the country recorded \$49.6 billion in total agriculture exports — a 20% increase from 2020-21. However, recent climate shocks have raised concerns about India's wheat and rice production over the next year. Given climate shocks and extreme weather phenomena, it is important to place a greater focus on climate adaptation and resilience building.

India's agriculture sector primarily exports agriculture and allied products, marine products, plantations, and textile and allied products. Rice, sugar, and spices were some of the main exports. India is also a provider of humanitarian food products, notably to Afghanistan, and to many other countries when the world faces food supply shortages and disruptions, such as during the current crisis in Ukraine. Agri-food systems will need to provide for and sustainably support an increasing population. In the current times, there is an increased recognition to move away from **conventional** input-intensive agriculture towards more inclusive, effective, and sustainable agri-food systems that would facilitate better production.

**Q53.** Which of the following(s) is/are the assured steps to end the global hunger?

- (a) Through intensive and collaborative measures to improve agriculture-based production
- (b) By addressing the needs to improvise environment and nutrition.
- (c) Interventions to solve storage requirements
- (d) Only (a) and (b)
- (e) All of these

**Q54.** Which of the information is FALSE with regarding to the data given in the passage?

- (a) A combination of conflict, the climate crisis, and the ripple effects of COVID-19 have left the world losing progress in the fight for Zero Hunger.
- (b) The Hunger Hotspots Outlook (2022-23) estimated over 200 million people in around 45 countries require urgent food security
- (c) It is imperative to put an end to hunger and nutrition deficiencies to achieve global peace and prosperity.
- (d) India saw a substantial jump of 25% in the export of the year 2021-22 comparative to its previous year.
- (e) None of these

**Q55.** What is the condition of export in India?

- (a) Indian export industry mainly deals around agriculture and marine productions and their allied activities.
- (b) India has also contributed its part in aiding food requirements leaded by the ongoing global crisis.
- (c) Rice, sugar and spices are some of the major components of Indian export
- (d) Only (a) and (c)
- (e) All of these

**Q56.**As per the passage, what should be the required step(s) for India in ensuring food security for its people?

- (a) India should allot more funds into the government backed hunger defying projects.
- (b) India should incorporate extreme climate resilient methods to combat any future anomalies.
- (c) India must ask for funds to global agencies in order to end hunger in the wake of ongoing global disasters
- (d) Only (a) and (b)
- (e) All of these

**Q57.** Which of the following words can fit into the given blank in the passage?

- (a) leverage
- (b) abysmal
- (c) Adequate
- (d) apparent
- (e) relinquished

**Q58.** Which of the following is the antonym of “severe” as highlighted in the passage?

- (a) oppressive
- (b) lenient
- (c) rigid
- (d) austere
- (e) None of these

**Q59.** Which of the following is the synonym of “conventional” as highlighted in the passage?

- (a) nascent
- (b) flamboyant
- (c) vogue
- (d) traditional
- (e) All of these



**Directions (60-64):** Two columns are given with few sentences/phrases in each which are grammatically correct and meaningful. Connect them in the best possible way without changing the intended meaning. Choose the best possible combination as your answer accordingly from the options to form a correct, coherent sentence.

**Q60.** COLUMN I

- (A) But nothing seems to dissuade Russian President Vladimir Putin’s revisionist
- (B) Despite widespread global condemnation
- (C) When Indira Gandhi returned to power, in 1980

COLUMN II

- (D) Moscow brazenly continues with its illegal military offensive against Kyiv
- (E) a Department of Environment was established at the Centre
- (F) military battle to defend its sovereignty but is also using all possible levers



- (a) Only (A)-(D) and (C)-(F)
- (b) Only (C)-(F)
- (c) Only (B)-(D) and (C)-(E)
- (d) Only (A)-(D)
- (e) None of these

**Q61. COLUMN I**

- (A) In the last two years, India has achieved the dubious distinction of
- (B) It will be unfair to our children if we simply move on
- (C) It needs no reiteration that, in the last two years

**COLUMN II**

- (D) remained sub-optimal and science communication, almost always delayed
- (E) becoming the country with the second longest COVID-19 pandemic-linked school closure in the world
- (F) already wide educational inequities have only widened further.

- (a) Only (A)-(E) and (C)-(F)
- (b) Only (C)-(F)
- (c) Only (B)-(D) and (C)-(E)
- (d) Only (A)-(D)
- (e) None of these

**Q62. COLUMN I**

- (A) India's missile incident has highlighted the sorry state of
- (B) We reach those in need even in the most remote areas
- (C) 60 percent of the world's hungry people live in zones affected by conflict

**COLUMN II**

- (D) bilateral mechanisms it has with Pakistan for crisis management
- (E) which is the main driver in 8 out of 10 of the worst hunger crises
- (F) the handling and even the engineering of high-technology weapon systems in India

- (a) Only (A)-(D) and (C)-(E)
- (b) Only (A)-(F)
- (c) Only (B)-(D) and (C)-(F)
- (d) Only (B)-(F)
- (e) None of these

**Q63. COLUMN I**

- (A) Distinguishing it from constitutional political secularism
- (B) Local markets with short supply chains
- (C) As a child of the republic founded in 1950

**COLUMN II**

- (D) find a reasonable way through complex issues
- (E) on which of these enhances our constitutional commitment
- (F) have shown their worth during Covid-19 lockdowns.

- (a) Only (A)-(D) and (C)-(E)
- (b) Only (A)-(F)
- (c) Only (B)-(D) and (C)-(F)
- (d) Only (B)-(F)
- (e) None of these

**Q64. COLUMN I**

- (A) To make sense of all this, we need to consider what data is available
- (B) Although valuable, the data is patchy
- (C) Arguably, into the third month of its Ukraine invasion

**COLUMN II**

- (D) should be given employment status and benefits.
- (E) Moscow is more dependent on India today than the other way round
- (F) actually, reflects a sharp improvement in registration

- (a) Only (A)-(D) and (C)-(F)
- (b) Only (C)-(E)
- (c) Only (B)-(D) and (C)-(E)
- (d) Only (A)-(D)
- (e) None of these

**Directions (65-67): In each question a word is omitted. Find the appropriate word from the given options that can fit into the blank without altering the intended meaning.**

**Q65.** It possesses an extremely \_\_\_\_\_ smell, and its vapor is extremely irritating to the eyes.

- (a) feisty
- (b) pungent
- (c) incessant
- (d) aromatic
- (e) Incisive

**Q66.** I will resist the temptation to engage in a philosophical \_\_\_\_\_ on what counts as news

- (a) disquisition
- (b) scholastic
- (c) disposition
- (d) ambit
- (e) herald

**Q67.** In the \_\_\_\_\_ competition, each performance group is comprised of two or more members.

- (a) solidarity
- (b) league
- (c) berate
- (d) fractious
- (e) ensemble



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**Directions (68-72):** Each of the sentence given below has been divided in four parts which may or may not be correct. Choose the part that contains an error as your answer choice. If no such part has any error, choose "No Error" as your answer

**Q68.** Parliament could introduced (A)/ a new provision for bail, by (B)/removing the defects pointed (C)/out by the Court(D)

- (a)A
- (b)B
- (c)C
- (d)D
- (e)No Error

**Q69.** His most extensive single work is (A)/ a book on Sound, that, in the (B)/second edition, has become a (C) /treatise on vibrations in general (D)

- (a)A
- (b)B
- (c)C
- (d)D
- (e)No Error

**Q70.** The constitution of the patriarchal system (A)/resulted into the recognition of a certain (B)/right of appeal to Rome (C)/ from the larger part of the West (D)

- (a)A
- (b)B
- (c)C
- (d)D
- (e)No Error

**Q71.** Dean laughed at first at (A)/his wife's suggestion but (B)/the more he thought about it (C)/ the more the idea had a ring of validity to it (D).

- (a)A
- (b)B
- (c)C
- (d)D
- (e)No Error

**Q72.** It was he who finally removed (A)/ last vestiges of the god Apollo(B)/ with the laurel band (C)/becoming an ear of barley (D)

- (a)A
- (b)B
- (c)C
- (d)D
- (e)No Error

**Directions (73-75):** In each of the questions given below, a passage has been given which is either situational based or describes a scenario. Mark out the correct inference that can be drawn regarding the person/ situation as your answer.

**Q73.** She sat in the darkened room waiting. It was now a standoff. He had the power to put her in the room, but not the power to make her repent. It wasn't fair and no matter how long she had to endure the darkness, she wouldn't change her attitude. The girl mentioned in the paragraph showcase a /an \_\_\_\_\_ personality  
(a) obstinate  
(b) intuitive  
(c) perceiver  
(d) vehement  
(e) None of these

**Q74.** Apart from pears, the couple did not have a rich choice of foods to eat. But they did have yellow lentils, ghee and some spices. The wife was particularly good at making this dish called dahl. What an appetizing smell it had, to be sure! The woodman gobbled it up as soon as it was ready. The couple was \_\_\_\_\_ with their living condition.  
(a) rogue  
(b) content  
(c) anguish  
(d) abominate  
(e) None of these

**Q75.** There were four walls, a floor and a roof, which made one room; and this room contained a rusty looking cookstove, a cupboard for the dishes, a table, three or four chairs, and the beds. Uncle Henry and Aunt Em had a big bed in one corner, and Dorothy a little bed in another corner. There was no garret at all, and no cellar--except a small hole dug in the ground, called a cyclone cellar, where the family could go in case one of those great whirlwinds arose. The family was living in a/an \_\_\_\_\_ state.  
(a) edgy  
(b) whimsical  
(c) indigent  
(d) discrete  
(e) None of these

**Directions (76-80):** A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner.

**Q76. Gambit**

(i) If the billionaire doesn't declare all of his income, he could be charged with tax **gambit**  
(ii) Had it been an election **gambit**, the reduction would have taken place a few months before the election.  
(iii) After running from the IRS for two decades, **gambit** of taxes finally landed the man in prison  
(a) All of these  
(b) Only (i)  
(c) Both (ii) & (iii)  
(d) Both (i) & (ii)  
(e) Only (ii)

### Q77. Beguile

- (i) The car salesman tried to **beguile** the customer with an offer of free gas for a year.
  - (ii) The salesman **beguiled** him into buying a car he didn't want.
  - (iii) We sang songs and told stories to **beguile** the chilly night away.
- (a) All of these
  - (b) Only (i)
  - (c) Both (ii) & (iii)
  - (d) Both (i) & (ii)
  - (e) Only (ii)

### Q78. Cajolery

- (i) No amount of **cajolery** could convince Doris to hand us the keys to her car, so we took it for a ride without permission
  - (ii) Under **cajolery** of being a police officer, the gang member gained entry into the rival gang leader's apartment.
  - (iii) the minority attempted to control the Council by a delaying **cajolery**
- (a) All of these
  - (b) Only (i)
  - (c) Both (ii) & (iii)
  - (d) Both (i) & (ii)
  - (e) Only (ii)

### Q79. Inhibit

- (i) Some believe that spider crab **inhibits** edible crab from entering the pots.
  - (ii) Putting a dead rat on a person's doorstep is an **inhibit** way in which the mob has been known to warn possible snitches
  - (iii) As **inhibit** as it might sound, the woman truly believed that she was destined to be a movie star.
- (a) All of these
  - (b) Only (i)
  - (c) Both (ii) & (iii)
  - (d) Both (i) & (ii)
  - (e) Only (ii)

### Q80. Delusive

- (i) Tossing coins into a fountain for good fortune is a fun **delusiveness** that many people believe to be true
  - (ii) **Delusiveness** was as much a part of the social climber's club as was the high-priced bottles of wine and caviar.
  - (iii) Because he wanted patients to come back, the lying doctor gave them **delusive** information.
- (a) All of these
  - (b) Only (i)
  - (c) Both (ii) & (iii)
  - (d) Both (i) & (ii)
  - (e) Only (iii)



Directions (81-85): The table given below shows total number of HR, the ratio of HR to Finance employees and the difference between HR and Finance employees in four (P, Q, R & T) different companies. Read the data carefully and answer the questions.

Companies	Number of HR	HR: Finance	Difference between HR and Finance
P	$L+300$	4:7	330
Q	M	3:5	240
R	500	A:B	100
S	$N^2 + 380$	8:5	480

**Q81.** In company P, total number of females are  $27\frac{3}{11}\%$  and the ratio of female to male employees in finance is 2:5. Find the male employees in HR is what percentage of total number of finance employees in company Q.

- (a) 55%
- (b) 45%
- (c) 49%
- (d) 44%
- (e) 66%

**Q82.** In company S, total number of HR who are promoted is 30% of the total number of HR employees and the ratio of HR who get transferred to the resigned is 5:3 respectively. In finance, total number of promoted and resigned employees are same and the employees who were transfer are 300. Find the difference between total employees who get transferred and who get promoted in company S.

- (a) 255
- (b) 245
- (c) 257
- (d) 226
- (e) 266

**Q83.** In company R, the number of HR is more than the finance employees and the ratio of intern to regular employees in HR and finance department is 2:3 and 1:1 respectively. Find the total number of interns in company R.

- (a) 400
- (b) 375
- (c) 450
- (d) 350
- (e) 300

**Q84.** Find the value of  $\left(\frac{L}{2} + 2M - (M \div N)\right)$ .

- (a) 755
- (b) 778
- (c) 765
- (d) 776
- (e) 766

**Q85.** In company Q, the total number of female HR are equal to  $(9 \times N)$  and the male employees in Finance department is  $\left(\frac{3L+M}{N}\right) \times 10$ . Find the total number of male employees in HR are how much less than total number of female employees in finance department.

- (a) 250
- (b) 245
- (c) 230
- (d) 220
- (e) 260

**Q86.** A mixture contains 60 liters of pure milk. 10 liters of milk is taken out and 25 liters of water is added to the mixture. Again 60% of mixture is taken out and 40 liters mixture of milk and juice is added. If in the mixture of milk and juice contains 60% milk, then find the ratio of milk, water and juice in the resultant mixture.

- (a) 22:5:8
- (b) 21:5:8
- (c) 23:5:8
- (d) 19:5:8
- (e) 18:5:8

**Q87.** A spend 20% of monthly income on house rent. From the remaining, he spends Rs. R on travelling. Out of the remaining, the amount he saves and amount he spend on food are in the ratio of 3:2 respectively. If the amount spend on house rent is Rs.4000 less than the amount he saves and his monthly income Rs.25000, then find R.

- (a) 7200
- (b) 4800
- (c) 4000
- (d) 5000
- (e) 6000

**Q88.** A bag contains 6 white balloons and 4 black balloons. Find the probability of drawing a white balloon and a black balloon from the bag.

- (a)  $\frac{1}{15}$
- (b)  $\frac{7}{15}$
- (c)  $\frac{2}{15}$
- (d)  $\frac{8}{15}$
- (e)  $\frac{11}{15}$

**Q89.** Volume of a cone is  $40 \text{ cm}^3$  more than that of a cuboid. Radius and height of the cone are 7 cm and 12 cm respectively. If the length of cuboid is equal to the height of the cone and the breadth and the height of the cuboid are H cm and  $(H - 2)$  cm respectively, then find the breadth of the cuboid.

- (a) 8
- (b) 6
- (c) 12
- (d) 16
- (e) 4

**Q90.** There are two articles A and B. Marked price of A is 50% more than that of article B, cost price of A is equal to the marked price of B and A is sold at 25% profit and B is sold at 25% loss. If the discount given on A and B are Rs.1200 and Rs.1800 respectively, then find the cost price of B.

- (a) Rs.7200
- (b) Rs.4800
- (c) Rs.4000
- (d) Rs.5000
- (e) Rs.6000

**Q91.** Train A starts from Patna at 5:00 AM for Delhi. Train B starts from Delhi at 7:00 AM for Patna. Distance between Delhi and Patna is 720 km. Speed of train B is 60 km/hr. Train A can cross a pole in 30 sec. Find the time at which both trains will meet?

- (a) 9 AM
- (b) 10:30 AM
- (c) 1:30 PM
- (d) 1 PM
- (e) 10 AM

**Q92.** P and Q started a business with an investment of Rs.8000 and Rs.X respectively. After six months, R joined them with Rs. (X - 1000). At the end of the year the profit of P is 160% of the profit of R. Find the value of X.

- (a) Rs.12200
- (b) Rs.11000
- (c) Rs.14000
- (d) Rs.15000
- (e) Rs.14500

**Q93.** A sum of Rs.X invested at compound interest at 20% for three years and the amount received from it was Rs.3456. If  $\text{Rs.}\frac{3}{2}X$  is invested at simple interest at 12% for 15 years, then find the Simple interest received.

- (a) Rs.2200
- (b) Rs.5400
- (c) Rs.4400
- (d) Rs.5500
- (e) Rs.1450

**Directions (94 - 96):** The following questions are accompanied by two statements (I) and (II). You have to determine which statement(s) is/are sufficient/necessary to answer the questions.

- (a) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (d) Either statement (I) or statement (II) is sufficient to answer the question.
- (e) Statements (I) and (II) together are not sufficient to answer the question.

**Q94. A path of X meter width is carved around a rectangular field in which length of the field is 5 meters more than the breadth. Find X.**

**Statement I.** There is a square whose side is 5 meters less than breadth of the rectangle and area of square is  $50 \text{ m}^2$  less than area of the rectangle.

**Statement II.** Total cost of construction of path is Rs.7000 and rate of the construction of path per square meter is Rs.20.

**Q95. A, B and C started a business in partnership with Rs. (P - 500), (P + 100) and (P + 700) respectively. Find the value of P. Investment time is equal for all three.**

**Statement I -** Ratio between investment of A and C is 5: 9.

**Statement II -** If total profit is 210% of the value of P and profit share of C was (P- 200).

**Q96. Ratio of cost prices of three articles A, B and C is 8: 5 : 3 respectively. The articles A, B & C are marked up by 80%, 60% & 40% respectively. Find the cost price of C.**

**Statement I:** The ratio of selling prices of A, B and C is 10: 7: 13.

**Statement II:** The total profit earned on the three articles is Rs.120 less than the total discount given on the three articles.

**Directions (97 – 101): Read the information carefully and answer the following questions.**

There are three types of coins i.e., gold, silver and copper in each of the three bags P, Q & R. The total number of coins in the bags is 1510. The total number of coins in bag P is 580 and the total number of coins in bag Q is 510. The ratio between number of copper coins in P to Copper coins in Q to Gold coins in R is 3:2:4. The number of silver coins in bag Q is 60 more than the number of copper coins in the same bag. The number of gold coins in bag Q is 25% less than the number of silver coins in bag P. Total number of gold coins in all three bags is 570. The ratio of the total number of copper coins in all three bags and the total number of silver coins in all three bags is 20:27.

**Q97. Find the ratio of total number silver coins in bag P and Q together to total number of copper coins in all the bags.**

- (a) 23:20
- (b) 20:23
- (c) 24:23
- (d) 23:24
- (e) 21:22

**Q98. Find the average number of silver coins in Q, golden coins in R and copper coins in P.**

- (a) 200
- (b) 240
- (c) 230
- (d) 250
- (e) 180

**Q99. Total coins in R is what percentage of total number of copper coins in all the bags.**

- (a) 155%
- (b) 105%
- (c) 125%
- (d) 100%
- (e) 166%

**Q100.** In bag D, total number of coins are 75% more than copper coins in Q and total number of silver and copper coin in bag D is same. If the gold coin is 15 less than that of copper coins in D, then find the total number of gold coins.

- (a) 70
- (b) 40
- (c) 60
- (d) 50
- (e) 80

**Q101.** Find the number of copper coins in bag R.

- (a) 100
- (b) 140
- (c) 130
- (d) 150
- (e) 180

**Directions (102 – 106):** What will come in the place of question (?) mark in following number series:

**Q102.** 100, 152, 382, 1339, ?, 33153.25

- (a) 6025.75
- (b) 6025.05
- (c) 6025
- (d) 6027.5
- (e) 6025.25

**Q103.** 80, 45, 50, 80, 165, ?

- (a) 417.5
- (b) 412.5
- (c) 435.5
- (d) 478
- (e) 417

**Q104.** 10, 34, 66, 108, 162, ?

- (a) 270
- (b) 240
- (c) 230
- (d) 236
- (e) 239

**Q105.** 15, ?, 1279, 7679, 30719, 61439

- (a) 159
- (b) 155
- (c) 150
- (d) 160
- (e) 165



**Q106.** 33, ?, 176, 224, 259, 283

- (a) 101
- (b) 122
- (c) 133
- (d) 157
- (e) 113

**Directions (107 - 111)** In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I = Quantity II or no relation

**Q107.** A, B and C are three two digits natural numbers where unit digit of each number is odd and tens digit is even (A and C are the largest and smallest two digits numbers respectively.)

**Quantity I-** If all the numbers are divided by 2 then, find the sum of remainders.

**Quantity II-** Average of A, B & C is 51. Find the sum of digits of B.

**Q108.** Area of a Rhombus is  $240 \text{ cm}^2$  and one of the diagonals of the rhombus is 24 cm.

**Quantity I:** If the area of the rhombus is  $20 \text{ cm}^2$  less than the area of a rectangle and the length of the rectangle is equal to one of the diagonals of the rhombus, then find the breadth of the rectangle (length and breadth is a non-decimal number).

**Quantity II:** Side of Rhombus.

**Q109. Quantity I:** If P, Q, R are three consecutive whole numbers such that  $P + Q + R = 6$ , then  $4(2x)^Q - 96x^P + 18(2)^R = 0$

**Quantity II:**  $3y^2 - 13y + 12 = 0$

**Q110.** A bag contains four yellow toffees, Z black toffees and five grey toffees. If one toffee drawn at random probability of being grey is  $\frac{1}{3}$ .

**Quantity I.**  $\frac{7}{29}$

**Quantity II.** If two toffees taken out from the bag at random, then what will be the probability of that two toffees are black toffees.

**Q111.** A boat sails down the river for 10 km and then up the river for 6 km. The speed of the river is 1 km/hr.

**Quantity I:** If the whole trip takes four hours, then find the speed of boat in still water (in kmph).

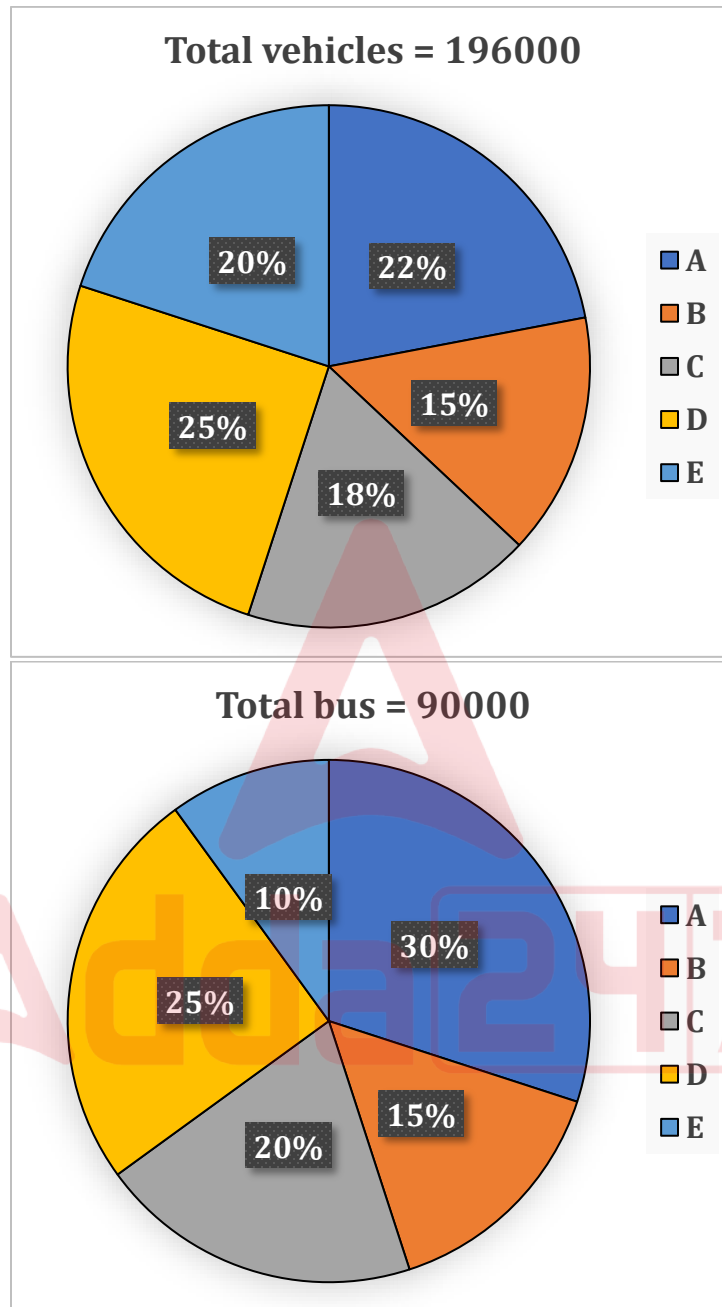
**Quantity II:** 4 km/hr.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I = Quantity II or No relation



**Directions (112 – 116):** Pie chart (i) shows the percentage distribution of total number of vehicles manufactured by five different companies. Pie chart (ii) shows the percentage distribution of total number of busses manufactured by each company.

**Note:** Total number of vehicles manufactured = Number of busses manufactured + Number of cars manufactured.



**Q112.** Total number of busses manufactured by Z is 60% of total buses manufactured by B. Find the ratio of total buses manufactured by company Z to the total bus manufactured by all companies.

- (a) 9:100
- (b) 100:9
- (c) 241:213
- (d) 24:23
- (e) 21:22

**Q113.** Out of the total vehicles manufactured by company D and E, 30% and 40% of the vehicles were damaged respectively. Find the total damaged vehicles of both the company.

- (a) 20300
- (b) 30240
- (c) 30230
- (d) 30380
- (e) 18000

**Q114.** If company Z manufactured 20% more vehicles than that of D and ratio of Buses to cars manufactured by company Z is 2:3 respectively, then find the total cars manufactured by company Z.

- (a) 15300
- (b) 22400
- (c) 30120
- (d) 35280
- (e) 28000

**Q115.** Total number of cars manufacture by B is approximately what percentage of total number of buses manufacture by A (approx.)?

- (a) 59%
- (b) 50%
- (c) 25%
- (d) 65%
- (e) 80%

**Q116.** Company F, manufactured cars equal to busses manufactured by E and 60% of the vehicles are busses. Find the total number of vehicles manufactured by company F.

- (a) 12200
- (b) 30540
- (c) 25500
- (d) 22500
- (e) 25000

**Directions (117-120):** In the given questions, two equations (I) and (II) are given. You have to solve both the equations and mark the answer accordingly.

**Q117. I.**  $x^2 - 9x + 20 = 0$

**II.**  $3y^2 - 16y + 16 = 0$

- (a)  $x < y$
- (b)  $x \leq y$
- (c)  $x \geq y$
- (d)  $x > y$
- (e)  $x = y$  or no relation.

**Q118. I.**  $12x^2 - 43x + 35 = 0$

**II.**  $10y^2 - 37y + 30 = 0$

- (a)  $x < y$
- (b)  $x \leq y$
- (c)  $x \geq y$
- (d)  $x > y$
- (e)  $x = y$  or no relation.

**Q119. I.**  $14x^2 + 31x + 6 = 0$

**II.**  $6y^2 + 29y + 35 = 0$

- (a)  $x < y$
- (b)  $x \leq y$
- (c)  $x \geq y$
- (d)  $x > y$
- (e)  $x = y$  or no relation.

**Q120. I.**  $(x + 12)^2 = 7x + 72$

**II.**  $(y + 9)^2 = 4y + 33$

- (a)  $x < y$
- (b)  $x \leq y$
- (c)  $x \geq y$
- (d)  $x > y$
- (e)  $x = y$  or no relation.

**Q121. In budget 2023-24, Finance Minister Nirmala Sitharaman announced the Amrit Dharohar scheme which will be implemented over the next \_\_\_\_\_ to encourage the optimal use of wetlands and enhance biodiversity.**

- (a) three years
- (b) two years
- (c) five years
- (d) six years
- (e) seven years

**Q122. The insurance regulator of India has recently released a directive to all insurers operating in the country to establish unique \_\_\_\_\_ identifiers, known as Ayushman Bharat Health Account (ABHA) IDs, for all individuals residing within India.**

- (a) 14-digit
- (b) 12-digit
- (c) 13-digit
- (d) 15-digit
- (e) 16-digit

**Q123. The Union Minister of Ports, Shipping, and Waterways, Sarbananda Sonowal, launched the 'Sagar Samridhi' online dredging monitoring system as part of the 'Waste to Wealth' initiative of the ministry. Who has developed this system?**

- (a) Indian Ports Association
- (b) Indian Sea Ports
- (c) Deendayal Port Trust
- (d) National Technology Centre for Ports, Waterways and Coasts
- (e) None of these

**Q124. National Testing Agency (NTA) was established as a premier, specialist, autonomous, and self-sustained testing organization to conduct entrance examinations for admission/fellowship in higher educational institutions. Who has been recently (In June 2023) appointed as the Director-General of NTA?**

- (a) Janardan Prasad
- (b) Subodh Kumar Singh
- (c) Amarendu Prakash
- (d) Ajay Yadav
- (e) Amit Agarwal

**Q125. Which country has achieved a major milestone in its pursuit of hypersonic technology with the completion of the world's most powerful wind tunnel known as the JF-22?**

- (a) Pakistan
- (b) Russia
- (c) Nepal
- (d) China
- (e) India

**Q126. Global Alliance for Mass Entrepreneurship (GAME) and the Small Industries Development Bank of India (SIDBI) have joined forces to introduce the NBFC Growth Accelerator Program (NGAP) which aims to address the funding challenges faced by \_\_\_\_\_?**

- (a) Farmers
- (b) MSMEs
- (c) Export Credit Companies
- (d) Renewable Energy Companies
- (e) Education Companies

**Q127. Name the country with which India has (In June 2023) set an ambitious target of achieving a bilateral trade volume of one billion euros by the end of the decade.**

- (a) Saudi Arabia
- (b) Senegal
- (c) Seychelles
- (d) Serbia
- (e) Slovenia

**Q128. The Indian Navy recently carried out a massive operation in the Arabian Sea involving more than 35 aircraft as part of a Carrier Battle Group (CBG). What are the names of the aircraft carriers involved in the operation?**

- (a) INS Vikramaditya, INS Vikrant
- (b) INS Shivalik, INS Vikrant
- (c) INS Tarkash, INS Vikramaditya
- (d) INS Kadmatt, INS Talwar
- (e) None of these

**Q129. Silvio Berlusconi, the billionaire media mogul who served as prime minister of \_\_\_\_\_ multiple times between 1994 and 2011, passed away recently.**

- (a) France
- (b) Switzerland
- (c) Austria
- (d) Slovenia
- (e) Italy

**Q130. Refer to the following statements regarding the joint military exercises recently held between the Indian Army and the Maldives National Defence Force-**

**[A]** The name of the exercise recently held between the Indian Army and the Maldives National Defence Force is "Ex Ekuverin".

**[B]** It was the 13<sup>th</sup> edition of the exercise.

**[C]** The exercise was conducted at Chaubatia, Uttarakhand.

**Mark the correct statements from the above using the codes given below.**

- (a) Only A
- (b) Only A & C
- (c) Only B & C
- (d) All A, B & C
- (e) Only C

**Q131. Australia clinched the title of World Test Champions in a commanding fashion, securing a resounding 209-run victory over India in the thrilling WTC Final at which of the following stadium?**

- (a) Melbourne Cricket Ground
- (b) The Oval
- (c) Eden Gardens
- (d) Sydney Cricket Ground
- (e) Kensington Oval

**Q132. To realize Prime Minister Shri Narendra Modi's vision of 'Sahakar se Samridhi, four important initiatives have been taken by the Reserve Bank of India to strengthen 1,514 Urban Co-operative Banks (UCBs) in the country. Which option is not among these four initiatives?**

(a) UCBs can now open new branches up to 10% (maximum 5 branches) of the number of branches in the previous financial year without prior approval of RBI in their approved area of operation.

- (b) UCBs can also do One Time Settlement at par with Commercial Banks.
- (c) The Reserve Bank of India has decided to extend the timeline for UCBs to achieve Priority Sector Lending (PSL) targets by two years i.e. up to March 31, 2026.
- (d) The Reserve Bank of India (RBI) has given banks three more months to appoint Chief Compliance Officer (CCO) as per the guidelines.
- (e) In order to meet the long pending demand of the cooperative sector for closer coordination and focused interaction, RBI has recently notified a nodal officer.

**Q133. Refer to the statements regarding French Open 2023-**

**[A]** Novak Djokovic won his men's-record 24<sup>th</sup> Grand Slam title with a victory over Casper Ruud in French Open Final.

**[B]** Iga Swiatek won the French Open 2023 women's singles title with a win over Karolina Muchova.

**[C]** The French Open is played on clay courts, which are slower than the grass courts of Wimbledon and the hard courts of the US Open.

**Mark the incorrect statements from the above using the codes given below.**

- (a) Only A
- (b) Only A & C
- (c) Only B & C
- (d) Only C
- (e) Only A & B

**Q134. Araku coffee and black pepper crops from which state has been granted organic certification by the Agriculture and Processed Food Products Export Development Authority (APEDA)?**

- (a) Tamil Nadu
- (b) Kerala
- (c) Karnataka
- (d) Andhra Pradesh
- (e) Maharashtra

**Q135. With which country did India add 15 more areas to the Comprehensive Economic Cooperation Agreement (CECA) negotiations in June 2023?**

- (a) Saudi Arabia
- (b) Japan
- (c) UAE
- (d) Australia
- (e) Singapore

**Q136. Name the military exercise conducted by the Indian Army in eastern Ladakh in June 2023.**

- (a) Agni Veer
- (b) Agni Shakti
- (c) Agneyastra
- (d) Agni Pariksha
- (e) Agni Prahar



**Q137. According to the RBI's annual report 2022-23, India's Gross Domestic Product (GDP) growth for 2023-24 is projected at \_\_\_\_\_ for FY2023-24.**

- (a) 6.5%
- (b) 7.5%
- (c) 7.9%
- (d) 8.2%
- (e) 8.5%

**Q138. King of Cambodia, Norodom Sihamoni was on his maiden State visit to India recently (May 2023). What is the capital city of Cambodia?**

- (a) Phnom Penh
- (b) Bangkok
- (c) Yangon
- (d) Angkor Wat
- (e) Hanoi

**Q139. Which state government has launched 'Namo Shetkari Mahasanman Yojana' under which more than one crore farmers in the state will be paid 6,000 rupees annually?**

- (a) Chhattisgarh
- (b) Madhya Pradesh
- (c) Rajasthan
- (d) Punjab
- (e) Maharashtra

**Q140. Recently, Which of the following companies has received the GreenPro Ecolabel for its steel products used in automobiles?**

- (a) Tata Steel
- (b) JSW Steel
- (c) ArcelorMittal Nippon Steel India
- (d) Steel Authority of India Limited (SAIL)
- (e) Bhushan Steel

**Q141. In which country the Eden Park Stadium is located?**

- (a) Australia
- (b) England
- (c) South Africa
- (d) New Zealand
- (e) India

**Q142. According to a report released by the United Nations Environment Programme (UNEP) in May 2023, by which year countries can eliminate plastic pollution by 80% utilizing existing technologies?**

- (a) 2030
- (b) 2035
- (c) 2040
- (d) 2045
- (e) 2050

**Q143. Which state government recently (in May '23) started a jail inmate plan and ISHTH Campaign?**

- (a) West Bengal
- (b) Odisha
- (c) Maharashtra
- (d) Himachal Pradesh
- (e) Uttar Pradesh

**Q144. Which of the following banks has recently (in May '23) collaborated with Zomato to introduce the Unified Payments Interface (UPI) service called 'Zomato UPI' for select users.**

- (a) ICICI Bank
- (b) HDFC Bank
- (c) YES Bank
- (d) IDFC First Bank
- (e) IndusInd Bank

**Q145. In a boost to the Indian space startup industry, Gujarat-based aerospace firm Azista BST Aerospace launched its maiden satellite, Azista BST Aerospace First Runner (AFR), also called ABA First Runner. The satellite was launched by\_\_\_\_\_.**

- (a) NASA
- (b) ISRO
- (c) SpaceX
- (d) JAXA
- (e) None of the above

**Q146. Which of the following entities can not provide microfinance facilities in India?**

- (a) Small Finance Bank
- (b) Commercial Banks
- (c) Non-banking financial companies
- (d) Payments Banks
- (e) Not-for-profits organizations

**Q147. Which of the following is the Capital city of Vietnam?**

- (a) Phnom Penh
- (b) Da Nang
- (c) Sana
- (d) Hanoi
- (e) Angkor Wat

**Q148. Maria Stepanova, a renowned Russian writer currently residing in Berlin, has been awarded the Leipzig Book Prize for European Understanding in 2023. What is the name of her novel for which she got a nomination for the Booker Prize in 2021?**

- (a) In Memory of Memory
- (b) The Voice Over
- (c) Relocations
- (d) War of the Beasts
- (e) None of these

**Q149. In May 2023, India along with which country has agreed to explore the possibility of accepting each other's payment cards, RuPay and Mir, for hassle-free payments between the two countries?**

- (a) Russia
- (b) Israel
- (c) UAE
- (d) Oman
- (e) Saudi Arabia

**Q150. From which year, India will participate in the International Civil Aviation Organisation's (ICAO) Carbon Offsetting and Reduction Scheme for International Aviation (CORSA) and the Long-Term Aspirational Goals (LTAG)?**

- (a) 2026
- (b) 2027
- (c) 2028
- (d) 2025
- (e) 2029

**Q151. Japanese star Kasumi Ishikawa, who won three women's team medals at three consecutive Olympic Games, announced her retirement. Kasumi Ishikawa belongs to which sports?**

- (a) Tennis
- (b) Hockey
- (c) Football
- (d) Archery
- (e) Table Tennis

**Q152. National Thermal Power Corporation (NTPC) signed a supplementary joint venture agreement with the Nuclear Power Corporation of India Limited (NPCIL) to develop nuclear power projects in the country. Nuclear Power Corporation of India Limited (NPCIL) is a public sector undertaking, its headquarter is in which city?**

- (a) New Delhi
- (b) Hyderabad
- (c) Mumbai
- (d) Bengaluru
- (e) Gurugram

**Q153. Researchers at the Indian Institute of Technology Madras have developed a machine learning-based computational tool to improve the detection of cancer-causing tumours in the brain and spinal cord. Mark the correct option regarding the name of the tool.**

- (a) ABMDriver
- (b) BBMDriver
- (c) FBMDriver
- (d) GBMDriver
- (e) None of the above

**Q154. Starting from May 1, 2023, businesses with an annual turnover of \_\_\_\_\_ or more are required to abide by a new GST rule which mandates the uploading of electronic invoices on the Invoice Registration Portal (IRP) within seven days of their issue.**

- (a) Rs 50 Crore
- (b) Rs 75 Crore
- (c) Rs 100 Crore
- (d) Rs 200 Crore
- (e) Rs 250 Crore

**Q155. Which director along with Shah Rukh Khan is included in Time Magazine's annual 100 Most Influential People of 2023, becoming the only two Indians on the list?**

- (a) Rajkumar Hirani
- (b) Mani Ratnam
- (c) Ram Gopal Verma
- (d) SS Rajamouli
- (e) Shyam Benegal

**Q156. What is the name of the ships that arrived in Singapore to participate in the inaugural ASEAN India Maritime Exercise (AIME-2023) which took place from May 2nd to May 8th, 2023?**

- (a) INS Satpura, INS Mumbai
- (b) INS Savarkar, INS Delhi
- (c) INS Mumbai, INS Savarkar
- (d) INS Satpura, INS Delhi
- (e) INS Satpura, INS Savarkar

**Q157. What is the name of the renowned actor and writer of Indian origin based in the UK, who is set to receive the prestigious BAFTA Fellowship, the highest honour awarded by the British Academy of Film and Television Arts?**

- (a) Meera Joshi
- (b) Meera Soni
- (c) Meera Syal
- (d) Meera Kumari
- (e) Meera Rathod

**Q158. As per the official announcement, the deadline for the Smart Cities Mission will be extended until \_\_\_\_\_, as requested by some cities that require additional time to finish their ongoing projects.**

- (a) June 2024
- (b) December 2023
- (c) June 2025
- (d) October 2023
- (e) December 2024

**Q159. Which day marks the observance of World Press Freedom Day to increase understanding about the significance of a press that is free and not influenced by external forces?**

- (a) July 11
- (b) October 9
- (c) November 9
- (d) May 3
- (e) May 1

**Q160. Recently, The Supreme Court of India has granted couples the right to divorce on the grounds of “irretrievable breakdown of marriage”, under which article of the Constitution?**

- (a) Article 140
- (b) Article 141
- (c) Article 142
- (d) Article 145
- (e) Article 144

## Solutions

**Solutions (1-4):**

Day	Persons	Money (rupees)
Monday	K	1380
Tuesday	T	1600
Wednesday	H	1580
Thursday	Y	1260
Friday	L	2200
Saturday	G	1120
Sunday	D	1050

**S1. Ans.(c)**

**Sol.** Required difference = 1380 (K) – 1260 (Y) = Rupees 120

**S2. Ans.(d)**

**Sol.** The third highest sum of money is deposited on Wednesday.

**S3. Ans.(a)**

**Sol.** T deposited money just before H.

**S4. Ans.(e)**

**Sol.** Except pair in option (e), there is one person who deposits money between the persons given in pair.

## Solutions (5-8):

### S5. Ans.(c)

Sol. I.  $K < S$  (False)                      II.  $V \geq H$  (False)

### S6. Ans.(a)

Sol. I.  $C > F$  (True)                      II.  $S \leq T$  (False)

### S7. Ans.(e)

Sol. I.  $B > H$  (True)                      II.  $S < W$  (True)

### S8. Ans.(d)

Sol. I.  $L > J$  (False)                      II.  $V \leq J$  (False)

**Solutions (9-12):** One number and one word is arranged in each step. Numbers are arranged in decreasing order and words are arranged in dictionary order as per its 2<sup>nd</sup> letter of the word.

In step I, number is placed at the left end and word is placed at the right end. And in step II, word is placed at the left most end (just before the number placed in step I) and the number is placed at the right most end (just after the word placed in step I).

This arrangement of number and word is followed till the last step.

**Input: 23 47 model 52 reader 66 travel egg 31 answer**

Step I: 66 23 47 model 52 travel egg 31 answer reader

Step II: egg 66 23 47 model travel 31 answer reader 52

Step III: 47 egg 66 23 model travel 31 reader 52 answer

Step IV: model 47 egg 66 23 travel reader 52 answer 31

Step V: 23 model 47 egg 66 reader 52 answer 31 travel

### S9. Ans.(b)

Sol. 'travel' is 3<sup>rd</sup> to the left of 9<sup>th</sup> element from left end in penultimate step.

### S10. Ans.(d)

Sol. Four elements are in between 'model' and '52' in step II.

### S11. Ans.(a)

Sol. 'W' is the highest consonant in 'answer' which is 2<sup>nd</sup> word from right end in last step.

### S12. Ans.(c)

Sol. 'travel 31 reader' is found in the same manner in step III.

### S13. Ans.(d)

Sol. Population of India and Australia has been compared but nowhere discussed or central theme about education or study destination. So (I) is not in line with the given statement. Option (II) defines the Indian culture and (III) is the basic principle of democracy. So, II and III are in line with the given statement.



**S14. Ans.(b)**

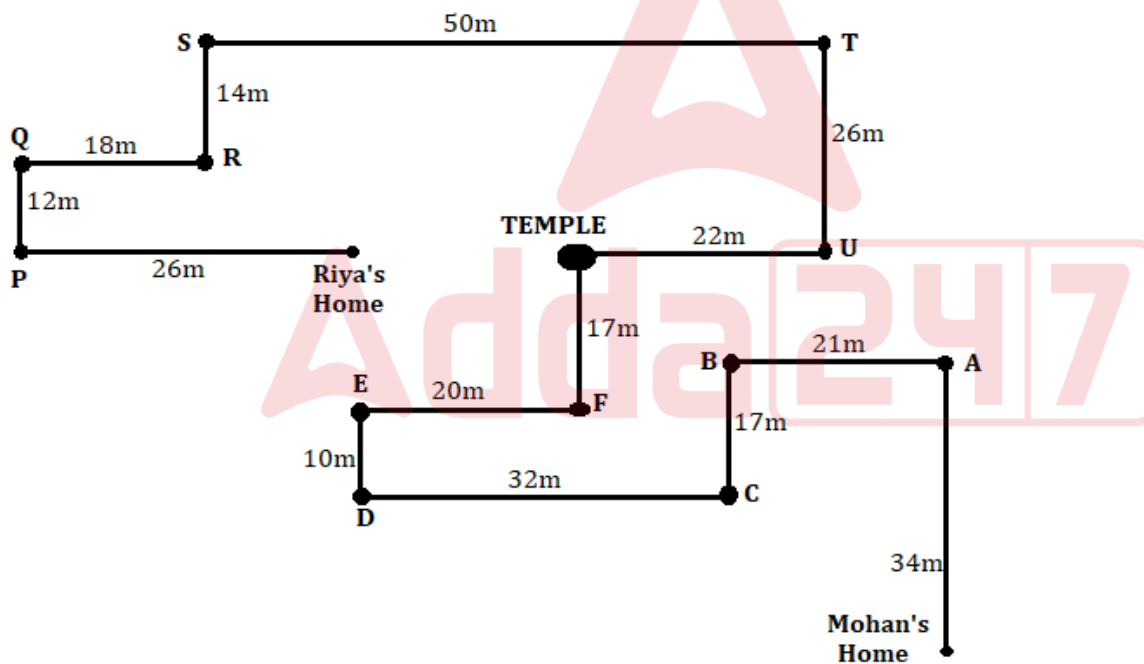
**Sol.** Option (I) may be the effective course of action, it's not the fallout. Option (II) may be the fallout as management is careless, they are not taking appropriate steps. Option (III) may be the fallout as after a year there is no improvement in case and if PIL will be filed, Supreme court may look into the matter.

**S15. Ans.(e)**

**Sol.** Four persons live between U and A.

Floor	Persons
8	R
7	E
6	U
5	C
4	G
3	N
2	V
1	A

**Solutions (16-19):**



**S16. Ans.(c)**

**Sol.** Distance covered by Riya = 168m, distance covered by Mohan = 151m  
 Required difference = 168 - 151 = 17m

**S17. Ans.(c)**

**Sol.** Point S is in north-west of point B.

**S18. Ans.(d)**

**Sol.** Riya's home is 20m west of temple.

**S19. Ans.(d)**

**Sol.** Except (d), first point is in south-west of second point in the pair.

**S20. Ans.(e)**

**Sol.** As it has been decided for random testing so it can be said that DIAL is expecting some case rise. In the above statement, testing of corona and if someone found positive, they will be quarantined has been discussed but there is no provision of lockdown. One of measures i.e. Quarantine has been taken by DIAL as per the protocol of ministry of health and family welfare so flight shut down cannot be assumed as per given statement.

**S21. Ans.(d)**

**Sol.** Option (I) and (II) are the demerits of subjective one. So, it doesn't diminish the advantage of objective assessment over subjective one. Option III describes about one of the possible conditions in objective tests and it diminish or weaken the fact which is stated in above statement.

**Solutions (22-25):**

Designation	Persons	Fruits
General Manager (GM)	V	Mango
Managing director (MD)	S	Apricot
Deputy General Manager (DGM)	P	Kiwi
Assistant General Manager (AGM)	T	Grapes
Manager (MG)	Q	Orange
Assistant Manager (AM)	W	Pears
Section Officer (SO)	R	Papaya
Clerk (CL)	U	Banana

**S22. Ans.(d)**

**S23. Ans.(c)**

**S24. Ans.(d)**

**S25. Ans.(a)**

**Solutions (26-28):**

$Z (+) - R (-) = J (+) - X (-)$   
|  
 $K (-) - T (-) = U (-) - V (-)$   
|  
 $W (+) = Y (-)$

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S26. Ans.(c)

S27. Ans.(d)

S28. Ans.(a)

S29. Ans.(b)

Sol. Given number= 6493781539  
After rearrangement= 3467998531  
 $9/3=3$

S30. Ans.(b)

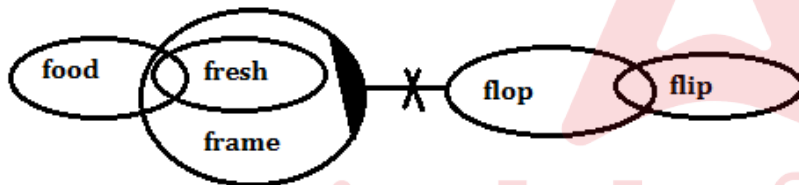
Sol. Assessment of subjective needs human elements due to which result may vary person to person. And this cannot be controlled, human error may influence the result.

S31. Ans.(c)

Sol. Only II and III can be best attributed as benefits of objective evaluation has been discussed in the above statement. It has also been discussed that negative marking is good for examination system.

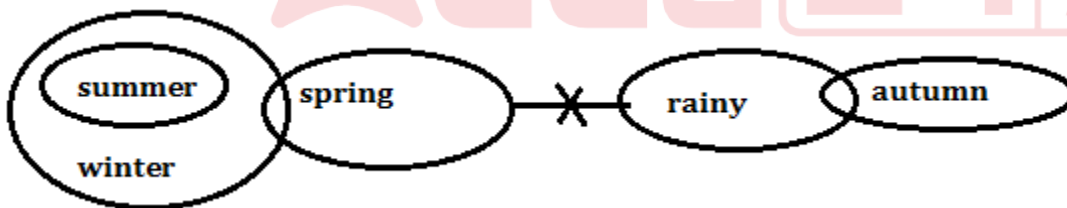
S32. Ans.(b)

Sol.



S33. Ans.(a)

Sol.



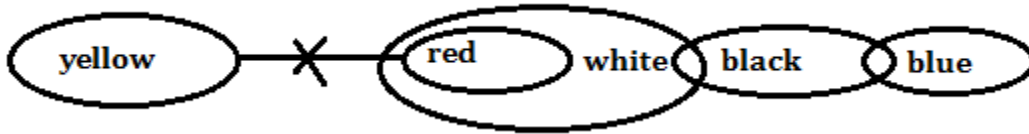
S34. Ans.(c)

Sol.



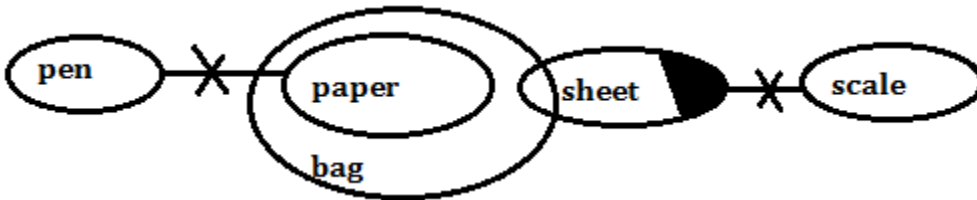
S35. Ans.(e)

Sol.



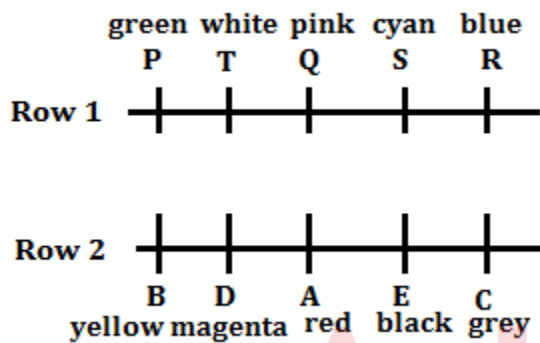
S36. Ans.(c)

Sol.



Solutions (37-40):

Sol.



S37. Ans.(b)

S38. Ans.(e)

S39. Ans.(a)

S40. Ans.(c)

S41. Ans.(c)

Sol. Refer to the first paragraph to answer the given question, “Why the previous struggles failed arouses little curiosity in today’s crusaders against the colonial mindset. As an ideology, colonialism has an inbuilt device to deal with reactive moods of the colonised. These moods vary according to economic and political seasons. Citizens of former colonies typically feel more comfortable when they are passing through a good phase of their collective economic life. Conversely, they get twitchy when growth slows down.”

**S42. Ans.(d)**

**Sol.** Refer to the last paragraph to answer the given question, “De-colonisation received a major official push in several African colonies after they attained freedom. In education, language was a focus area, but the choice did not prove wise. Entrenched social inequalities came in the way of ideal goals. In India, we have experienced this trajectory several times over, but the fascination of radical stances has not diminished.”

**S43. Ans.(b)**

**Sol. For option (A) and (B):** Refer to the last paragraph,” Removal of English is a big draw among political parties which promise to exorcise India’s mind, body and soul from the ghost of colonialism. Alas, among the youth, English shows no sign of becoming unpopular. As Snigdha Poonam has documented in her remarkable study of provincial youth culture, ‘spoken English’ has emerged as a major component of the coaching industry.”

**For option (C):** By referring the complete first paragraph, we can conclude that while an urge towards decolonization has always been there but the intensity varies generation to generation.

**S44. Ans.(a)**

**Sol.** Attained: succeed in achieving (something that one has worked for).

Dejected: sad and depressed; dispirited.

Flourished: grow or develop in a healthy or vigorous way, especially as the result of a particularly congenial environment.

Synchronized: cause to occur or operate at the same time or rate.

Trailed: draw or be drawn along behind someone or something.

**S45. Ans.(b)**

**Sol.** Propitious: giving or indicating a good chance of success; favorable.

Achromatic: relating to, using, or denoting lenses that transmit light without separating it into constituent colors

Opportune: especially convenient or appropriate for a particular action or event.

Succinct: short concise expression

Dismal: causing a mood of gloom or depression.

**S46. Ans.(d)**

**Sol.** Invoke means call on (a deity or spirit) in prayer, as a witness, or for inspiration. Thus, the word antonym of it is ‘discourage’.

Beseech: ask (someone) urgently and fervently to do something; implore; entreat.

Supplicate: ask or beg for something earnestly or humbly.

Solicit: ask for or try to obtain (something) from someone

**S47. Ans.(b)**

**Sol.** Depletion: reduction in the number or quantity of something

Inflexion: the modulation of intonation or pitch

Cherished: protect and care for (someone) lovingly.

Staggered: walk or move unsteadily, as if about to fall.

Residual: remaining after the greater part or quantity has gone.

**S48. Ans.(b)**

**Sol.** Peripheral: of, relating to, involving, forming

Landscape: all the visible features of an area of land

Level: a position on a scale of amount, quantity, extent, or quality

Protocol: the official procedure or system of rules governing affairs of state or diplomatic occasions.

Arbitrage: the practice of taking advantage of a difference in prices in two or more markets

**S49. Ans.(e)**

**Sol.** The word highlighted is correct for the given sentence, hence, required no changes.

Impulse: a sudden force or desire

Conclusion: the end or finish of an event, process, or text

Deviation: the action of departing from an established course or accepted standard

Impart: make (information) known.

**S50. Ans.(d)**

**Sol.** Peril: serious and immediate danger

Divertive: tending to divert

Resistant: offering resistance to something or someone.

Affluent: having a great deal of money; wealthy.

Remote: situated far from the main centres of population; distant

**S51. Ans.(c)**

**Sol.** Upheaving: heave or lift up (something, especially part of the earth's surface)

Saturating: cause (a substance) to combine with, dissolve, or hold the greatest possible quantity of another substance

Diversifying: enlarge or vary its range of products or field of operation.

Reducing: to make smaller in size, amount, or number

Distancing: make (someone or something) far off or remote in position or nature.

**S52. Ans.(a)**

**Sol.** Footprint: the area occupied or affected by something.

Transition: the process or a period of changing from one state or condition to another.

Validity: the quality of being logically or factually sound; soundness or cogency.

**S53. Ans.(e)**

**Sol.** Refer to the first paragraph to answer the question, "Only through collective and transformational action to strengthen agri-food systems, rectifying storage problem, through better production, better nutrition, a better environment, and a better life, can we meet our promise to end hunger by 2030"

**S54. Ans.(d)**

**Sol.** Only option (d) is false.

For option (a): Refer to the first paragraph, "Globally, food and nutrition security continue to be undermined by the impacts of the COVID-19 pandemic, climate change, spiralling food inflation, conflict, and inequality." Also if we proceed in the passage more, we will see the goal is to end hunger or achieve Zero Hunger by the year 2030".



For option (b): Refer to the first paragraph, “The Hunger Hotspots Outlook (2022-23) forebodes escalating hunger, as over 205 million people across 45 countries will need emergency food assistance to survive”

For option (c): Refer to the first paragraph, “Without food and nutrition security for all, there can be no peace and no prosperity.”

For option (d): Refer to the second paragraph, “ During 2021-22, the country recorded \$49.6 billion in total agriculture exports — a 20% increase from 2020-21”

**S55. Ans.(e)**

**Sol.** Refer to the last paragraph to answer the given question, “India’s agriculture sector primarily exports agriculture and allied products, marine products, plantations, and textile and allied products. Rice, sugar, and spices were some of the main exports. India is also a provider of humanitarian food products, notably to Afghanistan, and to many other countries when the world faces food supply shortages and disruptions, such as during the current crisis in Ukraine.”

**S56. Ans.(b)**

**Sol.** Refer to the second paragraph of the passage, “However, recent climate shocks have raised concerns about India’s wheat and rice production over the next year. Given climate shocks and extreme weather phenomena, it is important to place a greater focus on climate adaptation and resilience building.”

**S57. Ans.(c)**

**Sol.** Leverage: the exertion of force by means of a lever.

Abysmal: extremely bad; appalling

Adequate: satisfactory or acceptable in quality or quantity.

Apparent: clearly visible or understood; obvious.

Relinquished: voluntarily cease to keep or claim; give up.

**S58. Ans.(b)**

**Sol.** Severe: very great.

Oppressive: inflicting harsh and authoritarian treatment

Lenient: more merciful or tolerant than expected

Rigid: unable to bend or be forced out of shape; not flexible

Austere: severe or strict in manner or attitude.

**S59. Ans.(d)**

**Sol.** Conventional: based on or in accordance with what is generally done or believed.

Nascent: just coming into existence and beginning to display signs of future potential.

Flamboyant: tending to attract attention because of their exuberance, confidence, and stylishness.

Vogue: in trend

Traditional: existing in or as part of a tradition; long-established

**S60. Ans.(c)**

**Sol.** Coherent sentences can be formed by joining (B)-(D) and (C)-(E). Therefore, the sentences will be “Despite widespread global condemnation Moscow brazenly continues with its illegal military offensive against Kyiv” and “When Indira Gandhi returned to power, in 1980, a Department of Environment was established at the Centre”

**S61. Ans.(a)**

**Sol.** Coherent sentences can be formed by joining (A)-(E) and (C)-(F). Therefore, the sentences will be “In the last two years, India has achieved the dubious distinction of becoming the country with the second longest COVID-19 pandemic-linked school closure in the world” and “It needs no reiteration that, in the last two years already wide educational inequities have only widened further.”

**S62. Ans.(a)**

**Sol.** Coherent sentences can be formed by joining (A)-(D) and (C)-(E). Therefore, the sentences will be “India’s missile incident has highlighted the sorry state of bilateral mechanisms it has with Pakistan for crisis management” and “60 percent of the world’s hungry people live in zones affected by conflict which is the main driver in 8 out of 10 of the worst hunger crises “

**S63. Ans.(d)**

**Sol.** Coherent sentence can be formed by joining (B)-(F). Therefore, the sentences will be “Local markets with short supply chains have shown their worth during Covid-19 lockdowns.”

**S64. Ans.(b)**

**Sol.** Coherent sentence can be formed by joining (C)-(E). Therefore, the sentences will be “Arguably, into the third month of its Ukraine invasion, Moscow is more dependent on India today than the other way round”

**S65. Ans.(b)**

**Sol.** Feisty: Spirited, Courageous

Pungent: Having sharply strong taste or smell

Incessant: Continuing without pause or interruption.

Aromatic: Sweet smelling, Perfumed

Incisive: Perceptive, intelligently analytical and clear-thinking.

**S66. Ans.(a)**

**Sol.** Disquisition: a long or elaborate essay or discussion on a particular subject.

Scholastic: of or concerning schools and education

Disposition: a person's inherent qualities of mind and character.

Ambit: the scope, extent, or bounds of something.

Herald: a person or thing viewed as a sign that something is about to happen

**S67. Ans.(e)**

**Sol.** Solidarity: unity or agreement of feeling or action

League: a group of sports clubs which play each other over a period for a championship

Berate: scold or criticize (someone) angrily.

Fractious: irritable and quarrelsome.

Ensemble: a group of things or people acting or taken together as a whole

**S68. Ans.(a)**

**Sol.** The error lies in part A. Here, ‘could’ must be followed by ‘have introduced’. We use could have to say that we were capable of doing something but we didn’t. The structure is ‘could+ have+ V3’.

**S69. Ans.(b)**

**Sol.** The error lies in part B. Here, 'that' must be changed with 'which'. "That" indicates a defining clause, while "which" indicates a non-defining clause. A clause is "defining" when the meaning of the sentence changes when it isn't there. A non-defining clause, meanwhile, could be taken out of the sentence without changing its meaning.

**S70. Ans.(b)**

**Sol.** The error lies in part B. Here, 'into' must be changed with 'in', as 'resulted' is always followed by 'in'.

**S71. Ans.(e)**

**Sol.** The sentence has no error.

**S72. Ans.(b)**

**Sol.** The error lies in part B. Here, 'the' must be added before 'last' as any rank, serial number take the article 'the' before it.

**S73. Ans.(a)**

**Sol.** Going through the given paragraph, it is clear that the girl is very stubborn and even with the risk of enduring darkness she could not change her attitude. Thus, the right answer is 'obstinate'

Obstinate: stubbornly refusing to change one's opinion or chosen course of action, despite attempts to persuade one to do so.

Intuitive: using or based on what one feels to be true even without conscious reasoning; instinctive.

Perceiver: a person who becomes aware (of things or events) through the senses

Vehement: showing strong feeling; forceful, passionate, or intense.

**S74. Ans.(b)**

**Sol.** Though the couple had very little menu in their plate, but they seemed to be content with that and making best of it. Thus, the correct answer is 'content'.

Rogue: a dishonest or unprincipled man.

Content: in a state of peaceful happiness.

Anguish: severe mental or physical pain or suffering.

Abominate: detest; loathe.

**S75. Ans.(c)**

**Sol.** Going through the given paragraph, it is evident that the family of uncle and aunt and Dorothy did not have sufficient means or they were indigent or poor.

Edgy: tense, nervous, or irritable.

Whimsical: playfully quaint or fanciful, especially in an appealing and amusing way.

Indigent: poor; needy

Discrete: individually separate and distinct.

**S76. Ans.(e)**

**Sol.** Gambit means an act or remark that is calculated to gain an advantage, especially at the outset of a situation. Thus, only option (ii) is correct.

**S77. Ans.(a)**

**Sol.** Beguile means to persuade, attract, or interest someone, sometimes in order to deceive them. Thus, all the sentences are true.

**S78. Ans.(b)**

**Sol.** 'cajolery' means coaxing or flattery intended to persuade someone to do something. Hence only option (i) is true.

**S79. Ans.(b)**

**Sol.** 'Inhibit' means to restrain, hinder, arrest, or check (an action, impulse, etc.). Thus, only option (i) is true.

**S80. Ans.(e)**

**Sol.** 'delusive' means giving a false or misleading impression. Thus, only option (iii) is true.

**Solutions (81 – 85):** In company P,

Let total number of employees in HR and finance be  $4x$  and  $7x$  respectively.

ATQ,

$$7x - 4x = 330$$

$$3x = 330$$

$$110 = x$$

$$\text{Total number of employees in HR} = 4x = 440$$

$$\text{Total number of employees in finance} = 7x = 770$$

$$L + 300 = 440$$

$$L = 140$$

In company Q,

Let total number of employees in HR and finance be  $3a$  and  $5a$  respectively.

ATQ,

$$5a - 3a = 240$$

$$2a = 240$$

$$120 = a$$

$$\text{Total number of employees in HR} = 3a = 360$$

$$\text{Total number of employees in finance} = 5a = 600$$

$$M = 360$$

In company S,

Let total number of employees in HR and finance be  $8y$  and  $5y$  respectively.

ATQ,

$$8y - 5y = 480$$

$$3y = 480$$

$$160 = y$$

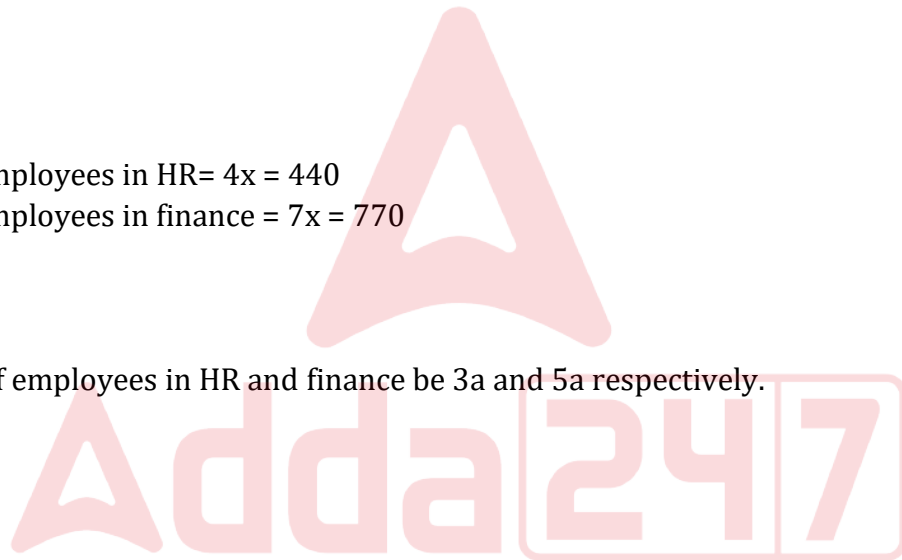
$$\text{Total number of employees in HR} = 8y = 1280$$

$$\text{Total number of employees in finance} = 5y = 800$$

$$N^2 + 380 = 1280$$

$$N^2 = 900$$

$$N = 30$$



**S81. Ans.(a)**

**Sol.** Total number of females in company  $P = \frac{3}{11} \times (440 + 770) = 330$

Total number of males in the company  $P = 1210 - 330 = 880$

Females in finance  $= \frac{2}{7} \times 770 = 220$

Males in finance  $= 770 - 220 = 550$

Male employees in HR  $= 880 - 550 = 330$

Required percentage  $= \frac{330}{600} \times 100 = 55\%$

**S82. Ans.(d)**

**Sol.** Total number of HR who get promoted  $= \frac{30}{100} \times 1280 = 384$

Total number of HR who were transferred  $= \frac{5}{8} \times (1280 - 384) = 560$

Total number of HR who resigned  $= 1280 - 384 - 560 = 336$

Total number of promoted and resigned employees each in finance  $= \frac{800-300}{2} = 250$

Required difference  $= (560 + 300) - (384 + 250) = 226$

**S83. Ans.(a)**

**Sol.** Let the total number of HR and finance employees is  $Ax$  and  $Bx$  respectively.

Total number of HR  $= 500$

$Ax = 500$

$Ax - Bx = 100$

$500 - 100 = Bx$

$400 = Bx$

Total number of interns in R  $= \frac{2}{5} \times 500 + \frac{1}{2} \times 400 = 200 + 200 = 400$

**S84. Ans.(b)**

**Sol.** Required value  $= \left( \frac{L}{2} + 2M - \frac{M}{N} \right) = \frac{140}{2} + 2 \times 360 - \frac{360}{30} = 70 + 720 - 12 = 778$

**S85. Ans.(a)**

**Sol.** Females in HR  $= 9 \times 30 = 270$

Males in HR  $= 360 - 270 = 90$

Male in finance  $= \left( \frac{3 \times 140 + 360}{30} \right) \times 10 = 260$

Female in finance  $= 600 - 260 = 340$

Required difference  $= 340 - 90 = 250$

**S86. Ans.(a)**

**Sol.** Milk                  water                  Juice

Step 1: 60                  0                  0

Step 2:  $60 - 10 = 50$                   25

Step 3:  $50 - (50 + 25) \frac{60}{100} \times \frac{2}{3} = 20$                    $25 - (50 + 25) \frac{60}{100} \times \frac{1}{3} = 10$                   0

Step 4:  $20 + \frac{60}{100} \times 40 = 44$                   10                   $\frac{40}{100} \times 40 = 16$

Required ratio  $= 44:10:16 = 22:5:8$

**S87. Ans.(d)****Sol.** Let total income be  $100x$ 

$$\text{Expenditure on HR} = 100x \times \frac{20}{100} = 20x$$

$$\text{Saving} = \frac{3}{5} \times (100x - 20x - R) = \frac{3}{5} \times (80x - 4)$$

ATQ,

$$\frac{3}{5} \times (80x - 4) - 20x = 4000$$

$$28x - \frac{3R}{5} = 4000$$

$$28 \times 250 - \frac{3R}{5} = 4000 \quad (100x=25000)$$

$$3000 = \frac{3R}{5} \quad \text{So, } x=250$$

$$R=5000$$

Alternative method

Let the income he saves and amount he spend on food is  $3x$  and  $2x$  respectively.

ATQ,

$$3x = \frac{20}{100} \times 25000 + 4000$$

$$3x = 9000$$

$$x = 3000$$

$$\text{Total expenditure} = 25000 - 9000 = \text{Rs. } 16,000$$

$$\frac{20}{100} \times 25000 + R + 2 \times 3000 = 16,000$$

$$R = 5000$$

**S88. Ans.(d)**

$$\text{Sol. } ({}^6C_1 \times {}^4C_1) \div {}^{10}C_2 = \frac{6 \times 4 \times 2}{10 \times 9} = \frac{8}{15}$$

**S89. Ans.(a)**

$$\text{Sol. Volume of the cuboid} = \left(\frac{1}{3} \times \frac{22}{7} \times 7 \times 7 \times 12\right) - 40 = 616 - 40 = 576 \text{ cm}^3$$

$$576 = (H)(H - 2) \times 12$$

$$48 = (H)(H - 2)$$

$$H^2 - 2H - 48 = 0$$

On solving equation

$$H = 8, -6$$

$$\text{Breadth of the cuboid} = 8 \text{ cm}$$

**S90. Ans.(c)****Sol.** Let the marked price and cost price of article B is  $100x$  and  $Y$  respectively.

$$\text{Marked price of A} = 150\% \text{ of } 100x = 150x$$

$$\text{Cost price of A} = 100x$$

$$\text{Selling price of A} = 125\% \text{ of } 100x = 125x$$

$$150x - 125x = 1200$$

$$48 = x$$

$$100x - 75\% \text{ of } Y = 1800$$

$$4800 - 1800 = 75\% \text{ of } Y$$

$$Y = \text{Rs. } 4000$$

**S91. Ans.(e)****Sol.** Speed of train A = 30 m/s = 108 km/hr

$$\text{Required time} = \frac{720 - 108 \times 2}{108 + 60} = 3 \text{ hours}$$

At 10 AM they will meet.

**S92. Ans.(b)****Sol.** 8000 × 12: X × 12: (X - 1000) × 6

16000: 2X: X - 1000

$$\frac{16000}{(16000 + 2X + X - 1000)} = \frac{160}{100} \times \frac{(X - 1000)}{(16000 + 2X + X - 1000)}$$

10000 = X - 1000

X = Rs. 11000

**S93. Ans.(b)****Sol.** 3456 =  $\left(\frac{100+20}{100}\right) \times \left(\frac{100+20}{100}\right) \times \left(\frac{100+20}{100}\right) X$ 

X = Rs. 2000

$$\text{Required simple interest} = \frac{\frac{3}{2} \times 2000 \times 12 \times 15}{100} = \text{Rs. 5400}$$

**S94. Ans.(c)****Sol.** Let the length and breadth of the rectangle be (b+5) meter and b meter respectively.**From statement I.**

$(b)^2 = (b+5)(b) - 50$

$b^2 = b^2 + 5b - 50$

b = 10 meters

l = 10+5 = 15 meters

**From statement II.**

$(10 + 2X)(15 + 2X) - 150 = \frac{7000}{20}$

$150 + 20X + 30X + 4X^2 - 150 = 350$

$4X^2 + 50X - 350 = 0$

X = +5, -17.5

So, both the statements taken together are necessary to answer the questions.

**S95. Ans.(d)****Sol. From statement I.**

$\frac{P-500}{P+700} = \frac{5}{9}$

9P - 4500 = 5P + 3500

4P = 8000

P = Rs. 2000

**From statement II.**

$P - 200 = \frac{210P}{100} \times \left(\frac{P+700}{3P+300}\right)$

P = Rs. 2000

Either statement **(I)** or statement **(II)** is sufficient to answer the question.



**S96. Ans.(e)**

Let the cost price of articles A, B & C be  $80x$ ,  $50x$  &  $30x$  respectively.  
So, the mark price of articles A, B & C be  $144x$ ,  $80x$  &  $42x$  respectively.

**From statement (I)**

So, the selling price of article A, B & C be  $10y$ ,  $7y$  &  $13y$  respectively.

**From statement (II)**

$$(10y+7y+13y)-(80x+50x+30x)=(144x+80x+42x)-(10y+7y+13y)-120$$

Two variable one equation not possible to solve the question.

Statements **(I)** and **(II)** together are not sufficient to answer the question.

**Solutions (97-101):** Let the total copper coins in P and Q be  $3x$  and  $2x$  respectively and gold coin in R is  $4x$ .

Let Gold coin in Q =  $3y$

$$\text{Silver coin in P} = 3y \times \frac{100}{75} = 4y$$

Let gold coin in P be  $Z$ .

Coins	P	Q	R	Total
Gold	Z	$3y$	$4x$	570
Silver	$4y$	$60+2x$	A	$27c$
Copper	$3x$	$2x$	B	$20c$
Total	580	510	420	1510

ATQ,

$$Z = 570 - 3y - 4x = 580 - 3x - 4y$$

$$y - x = 10 \dots (i)$$

$$3y + 60 + 2x + 2x = 510$$

$$3y + 4x = 450 \dots (ii)$$

Solving (i) and (ii)

$$x = 60, y = 70$$

$$Z = 120$$

$$1510 - 570 = (27+20)c$$

$$20 = c$$

$$A = 540 - 180 - 280 = 80$$

$$B = 400 - 180 - 120 = 100$$

Coins	P	Q	R	Total
Gold	120	210	240	570
Silver	280	180	80	540
Copper	180	120	100	400
Total	580	510	420	1510

**S97. Ans.(a)**

**Sol.** Required ratio =  $(280+180):400 = 23:20$

**S98. Ans.(a)**

**Sol.** Required average =  $\frac{180+240+180}{3} = 200$

**S99. Ans.(b)**

**Sol.** Required percentage =  $\frac{420}{400} \times 100 = 105\%$

**S100. Ans.(c)**

**Sol.** Total number of coins in bag D = 175% of 120=210

Let the total number of silver and copper coins each = j

Total gold coins = j - 15

ATQ,

$$j + j + j - 15 = 210$$

$$3j = 225$$

$$j = 75$$

$$\text{Total gold coins} = j - 15 = 75 - 15 = 60$$

**S101. Ans.(a)**

**Sol.** Required answer = 100

**S102. Ans.(d)**

**Sol.**

Pattern of the series -

$$\begin{array}{cccccc} 100 & 152 & 382 & 1339 & ?=6027.5 & 33153.25 \\ \times 1.5 + 2 & \times 2.5 + 2 & \times 3.5 + 2 & \times 4.5 + 2 & & \times 5.5 + 2 \end{array}$$

**S103. Ans.(a)**

**Sol.**

Pattern of the series -

$$\begin{array}{cccccc} 80 & 45 & 50 & 80 & 165 & ?=417.5 \\ \times 0.5 + 5 & \times 1 + 5 & \times 1.5 + 5 & \times 2 + 5 & \times 2.5 + 5 & \end{array}$$

**S104. Ans.(c)**

**Sol.**

Pattern of the series -

$$\begin{array}{cccccc} 10 & 34 & 66 & 108 & 162 & ? = 230 \\ +24 & +32 & +42 & +54 & +68 & \\ & +8 & +10 & +12 & +14 & \end{array}$$

**S105. Ans.(a)**

**Sol.** Pattern of the series -

$$15 \times 10 + 9 = 159$$

$$159 \times 8 + 7 = 1279$$

$$1279 \times 6 + 5 = 7679$$

$$7679 \times 4 + 3 = 30719$$

$$30719 \times 2 + 1 = 61439$$

**S106. Ans.(e)**

**Sol.**

Pattern of the series -

$$\begin{array}{ccccccc} 33 & ?=113 & 176 & 224 & 259 & 283 \\ 9^2 - 1 & & 8^2 - 1 & 7^2 - 1 & 6^2 - 1 & 5^2 - 1 \end{array}$$

**S107. Ans.(b)**

**Sol.** ATQ,

$$A = 89$$

$$C = 21$$

**Quantity I**

Remainder of odd digits is 1

So, sum of remainder = 3

**Quantity II**

$$B = 51 \times 3 - 89 - 21 = 43$$

$$\text{Sum of digit} = 4 + 3 = 7$$

**Quantity I < Quantity II**

**S108. Ans.(b)**

**Sol.** Another diagonal of the rhombus =  $2 \times \frac{240}{24} = 20 \text{ cm}$

**Quantity I**

if we take  $l = 20 \text{ cm}$

$$240 = 20 \times b - 20$$

$$b = 13 \text{ cm}$$

If we take  $l = 24 \text{ cm}$ , we will get a decimal number.

**Quantity II**

$$\text{Side of rhombus} = \sqrt{\left(\frac{20}{2}\right)^2 + \left(\frac{24}{2}\right)^2} = 2\sqrt{61} \text{ cm}$$

**Quantity I < Quantity II**

**S109. Ans.(c)**

**Sol. Quantity I:** P, Q and R are three consecutive whole numbers and their sum is 6.

So,  $P = 1, Q = 2, R = 3$ ,

Therefore,

$$4(2x)^Q - 96x^P + 18(2)^R = 0$$

$$4(2x)^2 - 96x^1 + 18(2)^3 = 0$$

$$16x^2 - 96x + 144 = 0$$

$$x^2 - 6x + 9 = 0$$

$$x = 3, 3$$

**Quantity II:**  $3y^2 - 13y + 12 = 0$

$$3y^2 - 9y - 4y + 12 = 0$$

$$y = \frac{4}{3}, 3$$

So, Quantity I  $\geq$  Quantity II

**S110. Ans.(a)****Sol.** Total toffees =  $4 + Z + 5 = 9 + Z$ 

ATQ.

$$\frac{5}{9+Z} = \frac{1}{3}$$

$$15 = 9 + Z$$

$$Z = 6$$

**Quantity I.**  $\frac{7}{29}$ **Quantity II.** Req. probability =  $\frac{6C_2}{15C_2} = \frac{1}{7}$ **So, Quantity I > Quantity II****S111. Ans.(e)****Sol. Quantity I:**Let speed of boat in still water be  $x$  kmph.

$$\frac{10}{x+1} + \frac{6}{x-1} = 4$$

$$x^2 - 4x = 0$$

$$x = 4, 0$$

now '0' cannot be the speed of the boat.

$$\text{So, } x = 4$$

**Quantity I = Quantity II****Solutions (112 - 116):** In company A,

Total number of vehicles manufactured =  $\frac{22}{100} \times 196000 = 43120$

Total number of buses manufactured =  $\frac{30}{100} \times 90000 = 27000$

Total number of cars manufactured =  $43120 - 27000 = 16120$

Similarly,

Companies	Total vehicles	Total buses	Total cars
A	43120	27000	16120
B	29400	13500	15900
C	35280	18000	17280
D	49000	22500	26500
E	39200	9000	30200

**S112. Ans.(a)**

**Sol.** Required ratio =  $\frac{60}{100} \times 13500 : 90000 = 8100 : 90000 = 9 : 100$

**S113. Ans.(d)**

**Sol.** Required answer =  $\frac{30}{100} \times 49000 + \frac{40}{100} \times 39200 = 14700 + 15680 = 30380$

**S114. Ans.(d)**

**Sol.** Car manufactured by Z =  $\frac{120}{100} \times 49000 \times \frac{3}{5} = 35280$

**S115. Ans.(a)**

**Sol.** Required percentage =  $\frac{15900}{27000} \times 100 = 58.888 \approx 59\%$

**S116. Ans.(d)****Sol.** Total number of cars manufactured by F = 9000Total number of vehicles manufactured by F =  $\frac{9000 \times 100}{40} = 22500$ **S117. Ans.(c)****Sol. I.**  $x^2 - 9x + 20 = 0$ 

$$x^2 - 4x - 5x + 20 = 0$$

$$x = 4, 5$$

**II.**  $3y^2 - 16y + 16 = 0$ 

$$3y^2 - 12y - 4y + 16 = 0$$

$$y = 4, \frac{4}{3}$$

So,  $x \geq y$ .**S118. Ans.(e)****Sol. I.**  $12x^2 - 43x + 35 = 0$ 

$$12x^2 - 28x - 15x + 35 = 0$$

$$x = \frac{7}{3}, \frac{5}{4}$$

**II.**  $10y^2 - 37y + 30 = 0$ 

$$10y^2 - 25y - 12y + 30 = 0$$

$$y = \frac{5}{2}, \frac{6}{5}$$

So, no relation.

**S119. Ans.(d)****Sol. I.**  $14x^2 + 31x + 6 = 0$ 

$$14x^2 + 28x + 3x + 6 = 0$$

$$x = -\frac{3}{14}, -2$$

**II.**  $6y^2 + 29y + 35 = 0$ 

$$6y^2 + 15y + 14y + 35 = 0$$

$$y = -\frac{7}{3}, -\frac{5}{2}$$

So,  $x > y$ .**S120. Ans.(b)****Sol. I.**  $(x + 12)^2 = 7x + 72$ 

$$x^2 + 17x + 72 = 0$$

$$x^2 + 8x + 9x + 72 = 0$$

$$xx = -9, -8$$

**II.**  $(y + 9)^2 = 4y + 33$ 

$$y^2 + 14y + 48 = 0$$

$$y^2 + 6y + 8y + 48 = 0$$

$$y = -6, -8$$

So,  $x \leq y$ .

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**S121. Ans.(a)**

**Sol.** Amrit Dharohar Scheme will be implemented over the next **Three Years**.

**Amrit Dharohar Scheme:**

- ❖ Highlighting the importance of local communities in conserving the wetland ecosystem, Finance Minister announced the Amrit Dharohar scheme which will promote their unique conservation values.
- ❖ This scheme will be implemented over the **next three years to encourage optimal use of wetlands**, and enhance bio-diversity, carbon stock, eco-tourism opportunities and income generation for local communities

**S122. Ans.(a)**

**Sol.** The insurance regulator of India has recently released a directive to all insurers operating in the country to establish unique **14-digit identifiers**, known as Ayushman Bharat Health Account (ABHA) IDs, for all individuals residing within India.

**Details:**

- This new rule applies to both **fresh insurance applicants** and **established policyholders**.
- The ABHA ID is a **component of the National Health Authority's Ayushman Bharat Digital Mission (ABDM)**, which aims to digitize healthcare records.
- A key advantage of the ABHA ID is that it allows people to digitally authenticate, access, and manage their healthcare information, which can make scheduling hospital and doctor appointments a quick and easy process.

**S123. Ans.(d)**

**Sol.** The **National Technology Centre for Ports, Waterways and Coasts (NTCPWC)** developed the "Sagar Samridhi" system.

**Details:**

- The Union Minister of Ports, Shipping and Waterways, Sarbananda Sonowal, launched the '**Sagar Samridhi**' online dredging monitoring system as part of the '**Waste to Wealth**' initiative of the ministry.
- The system **replaces the old Draft** and Loading Monitor system and offers improved efficiency and transparency.
- The NTCPWC's establishment under the Sagarmala Programme of MoPSW has invested **INR 77 crores**, and it aims to promote research and development for the marine sector to create a robust marine industry in India.

**S124. Ans.(b)**

**Sol.** **Subodh Kumar Singh** has recently been appointed as the director-general of the National Testing Agency.

**Details:**

- The Ministry of Education (MoE), Government of India (GoI) has established the National Testing Agency (NTA) as an independent, autonomous, and self-sustained premier testing organization **under the Societies Registration Act (1860)**.
- It was established as a premier, specialist, autonomous and self-sustained testing organization to **conduct entrance examinations for admission/fellowship in higher educational institutions**.

### Details Related to Options:

- ❖ **Janardan Prasad** Director-General of the Geological Survey of India
- ❖ **Amarendu Prakash** CMD of Steel Authority of India Ltd (SAIL)
- ❖ **Ajay Yadav** MD of Solar Energy Corporation of India Limited (SECI)
- ❖ **Amit Agarwal** CEO of the Unique Identification Authority of India (UIDAI)

### **S125. Ans.(d)**

**Sol.** China has achieved a major milestone in its pursuit of hypersonic technology with the completion of the world's most powerful wind tunnel.

#### Details:

- Known as the JF-22, this groundbreaking facility is set to play a pivotal role in China's hypersonic ambitions, enabling the country to make significant strides in the development of hypersonic vehicles.

#### China Static Facts:

- ❖ **Capital:** Beijing
- ❖ **Currency:** Yuan/Renminbi

### **S126. Ans.(b)**

**Sol.** NBFC Growth Accelerator Program (NGAP) aims to address the funding challenges faced by **micro, small, and medium enterprises (MSMEs)**.

#### Details:

- **Global Alliance for Mass Entrepreneurship (GAME)** and the **Small Industries Development Bank of India (SIDBI)** have joined forces to introduce the **NBFC Growth Accelerator Program (NGAP)**.
- This collaborative initiative aims to **address the funding challenges faced by micro, small, and medium enterprises (MSMEs)** by focusing on capacity building for smaller Non-Banking Financial Companies (NBFCs).
- The program will primarily support NBFCs lending to MSMEs in **tier two and tier three cities**.

### **S127. Ans.(d)**

**Sol.** India and **Serbia** have set an ambitious target of achieving a bilateral trade volume of one billion euros by the end of the decade.

#### Details:

- President Droupadi Murmu of India and her Serbian counterpart, Aleksandar Vucic, have expressed their commitment to strengthen bilateral relations and explore new areas of cooperation.

#### Serbia Static Facts:

- ❖ **Capital:** Belgrade
- ❖ **Currency:** Dinar

### **S128. Ans.(a)**

**Sol.** This was a twin CBG operation, with both of India's aircraft carriers, **INS Vikramaditya** and **INS Vikrant**, involved, along with a diverse fleet of escort ships, submarines, and aircraft.

#### Details:

- The Indian Navy carried out a massive operation in the Arabian Sea involving more than 35 aircraft as part of a **Carrier Battle Group (CBG)**.
- A CBG is a naval fleet comprising an aircraft carrier and multiple escort vessels.



**S129. Ans.(e)**

**Sol. Silvio Berlusconi**, the billionaire media mogul who served as **Italian prime minister** multiple times between 1994 and 2011, has died.

**Details:**

- Berlusconi's extensive political career included appointments as Italian prime minister from 1994 to 1995, 2001 to 2006, and 2008 to 2011.

**Italy Static Facts:**

- ❖ **Capital:** Rome
- ❖ **Currency:** Euro

**S130. Ans.(b)**

**Sol. Only statements A & C are correct** while **statement B is incorrect** as-

- It was the **12<sup>th</sup> edition** of the exercise.

**Details:**

- The **12th edition** of the joint military exercise "**Ex Ekuverin**" between the **Indian Army** and the **Maldives National Defence Force** has commenced at **Chaubatia, Uttarakhand**.
- The **11th edition** of the joint military exercise took place in the **Maldives in December 2021**.
- "Ex Ekuverin" plays a crucial role in enhancing the capabilities of both the Indian Army and the Maldives National Defence Force in conducting Counter Insurgency/Counter Terrorism Operations.

**Maldives Static Facts:**

- ❖ **Capital:** Male
- ❖ **Currency:** Rufiyaa

**S131. Ans.(b)**

**Sol. Australia** clinched the title of **World Test Champions** in a commanding fashion, securing a resounding 209-run victory over India in the thrilling WTC Final at The Oval.

**Details:**

- Travis Head and Steve Smith's remarkable centuries in the first innings laid the foundation for Australia's early control of the Test.
- **Australia scripted history** on June 11 as they became the **first men's team** in world cricket **to win an International Cricket Council (ICC) world title in all three formats**.
- Australia won the ICC Test Championship mace **for the first time** and were also awarded the cash prize of **US\$1.6 million**, while India won **US\$800,000**.

**S132. Ans.(d)**

**Sol. Option (d) is not** among these four initiatives taken by the Reserve Bank of India to strengthen 1,514 Urban Co-operative Banks (UCBs) in the country.

**Details:**

The Reserve Bank of India (RBI), in collaboration with the Central Government, has introduced four crucial measures to bolster the strength of 1,514 Urban Co-operative Banks (UCBs) in the country.

**1. In order to expand their business, Urban Cooperative Banks (UCBs) can now open new branches.** UCBs can now open new branches up to 10% (maximum 5 branches) of the number of branches in the previous financial year without prior approval of RBI in their approved area of operation.

## 2. UCBs can also do One Time Settlement at par with Commercial Banks

RBI has notified a framework governing this aspect for all regulated entities including Urban Co-operative Banks. Now cooperative banks through board-approved policies may provide process for technical write-off as well as settlement with borrowers. This has brought cooperative banks at par with other commercial banks now.

## 3. Revised timelines for PSL targets given to UCBs

The Reserve Bank of India has decided to extend the timeline for UCBs to achieve Priority Sector Lending (PSL) targets by two years i.e. up to March 31, 2026.

## 4. Designating a Nodal Officer in RBI

In order to meet the long pending demand of the cooperative sector for closer coordination and focused interaction, RBI has recently notified a nodal officer as well.

### S133. Ans.(a)

**Sol. Statements B & C are correct while Statement A is incorrect as-**

- Novak Djokovic won his men's-record **23rd Grand Slam title** with a victory over Casper Ruud in French Open Final.

#### Details:

- The French Open is one of the four Grand Slam tennis tournaments, and it has been held annually **since 1891**.
- **Iga Swiatek** won the **French Open 2023 women's singles title** with a 6-2, 5-7, 6-4 win over **Karolina Muchova**.
- The French Open is played on **clay courts**, which are slower than the grass courts of Wimbledon and the hard courts of the US Open.

#### List of Winners of French Open 2023-

Title	Winner	Runner up
Men's Singles	Novak Djokovic	Casper Ruud
Women's Singles	Iga Świątek	Karolina Muchova
Men's doubles	Ivan Dodig and Austin Krajicek	Sander Gille and Joran Vliegen
Women's doubles	Hsieh Su-Wei and Wang Xinyu	Taylor Townsend and Leylah Fernandez
Mixed doubles	Miyu Kato and Tim Pütz	Bianca Andreescu and Michael Venus

### S134. Ans.(d)

**Sol.** Girijan Co-operative Corporation (GCC), Visakhapatnam, **Andhra Pradesh**, has been granted organic certification for its renowned Araku coffee and black pepper crops by the Agriculture and Processed Food Products Export Development Authority (APEDA).

#### Additional info:

- The process of obtaining this certification involved various challenging tasks, including third-party verification, online registration, geo-tagging of farms, and updating all relevant details in the APEDA portal.

- The GCC's organic certification for Araku coffee and black pepper marks a significant milestone for the cooperative and highlights the dedication of the farmers in preserving the organic integrity of their crops.
- With its exquisite taste and sustainable production methods, Araku Coffee is poised to make a mark in the global coffee market and establish itself as a premium and sought-after product for coffee enthusiasts worldwide.
- Araku Valley Arabica can be described as coffee from the Hilly tracks of Visakhapatnam district of Andhra Pradesh and Odisha region at an elevation of 900-1100 Mt Mean Sea Level.
- The major type of Coffee grown in the state of Andhra Pradesh and Odisha is Arabica Coffee. Coffea Arabica is a species of Coffee originally indigenous to the forests of the southwestern highlands of Ethiopia. It is also known as the "coffee shrub of Arabia", "mountain coffee", or "Arabica coffee".

### **S135. Ans.(d)**

**Sol.** India and **Australia** recently (in June 2023) agreed to expand the Comprehensive Economic Cooperation Agreement (CECA) discussions to include 15 new areas that have never been covered by an India-related trade agreement.

#### **Additional info:**

- These additional categories cover a variety of industries, including, among others, agri-tech, essential minerals, sports, MSMEs (Micro, Small, and Medium Enterprises), gender innovation, and competition policy.
- It's important to note that on May 23, 2022, in Tokyo, Japan, the United States and other partner nations of the Indo-Pacific area jointly established the Indo-Pacific Economic Cooperation Forum (IPEF).

### **S136. Ans.(c)**

**Sol.** In June 2023, the Indian Army launched Agneyastra 1, a significant military exercise, in eastern Ladakh.

#### **Additional info:**

- All arms and services took part in the exercise, which demonstrated the Indian Army's strength.
- It involved a variety of artillery platforms, including mortars, the FH-77 Bofors towed howitzer, the K-9 Vajra-T self-propelled howitzer, and others. To show off its superior weaponry, it also employed anti-tank missiles and Carl Gustav rocket launchers.
- The exercise also made use of IdeaForge's Switch UAV, an Indian-manufactured drone that can deliver real-time battlefield imagery.
- The exercise was designed to improve the Indian Army's operational preparedness and deterrence capability in the eastern Ladakh area, where it is engaged in a third-year stalemate with China.

### **S137. Ans.(a)**

**Sol.** The RBI's annual report for 2022–23 projects India's Gross Domestic Product (GDP) growth for 2023–24 to be **6.5%** for FY24 due to lower global commodity and food prices, as well as favourable forecasts for the rabi crop.

#### **Additional info:**

- According to the RBI's annual report for FY23, India's growth momentum is projected to be sustained in 2023–2024, but domestic economic activity is encountering difficulties due to the forecast for the rest of the world.

- India benefits from resilient domestic macroeconomic and financial conditions, anticipated benefits from prior reforms, and fresh growth prospects brought about by global geoeconomic shifts.
- The report issued a warning that sluggish global growth, ongoing geopolitical unrest, potential increases in financial market volatility, and new stressors on the global financial system might all have a detrimental effect on growth.
- The research emphasised the necessity of continuing structural changes to raise India's capacity for medium-term growth.
- Along with supply-side interventions to resolve temporary demand-supply mismatches brought on by food and energy shocks, the disinflationary process would be guided by the cumulative increase in policy repo rate of 250 basis points last year.

**S138. Ans.(a)**

**Sol.** The capital city of Cambodia is **Phnom Penh**.

**Additional info:**

- King of Cambodia, Norodom Sihamoni, is on his maiden State visit to India from the 29th to 31st of May, 2023.
- His visit will mark the culmination of the celebrations of the 70th anniversary of diplomatic relations between India and Cambodia.
- A Cambodian king last visited India in 1963.
- Currency of Cambodia is Cambodian Riel (KHR)

**S139. Ans.(e)**

**Sol.** Maharashtra government has approved a new financial scheme under which more than one crore farmers in the state will be paid 6,000 rupees annually.

**Additional info:**

- The scheme, Namo Shetkari Mahasanman Yojana, was approved at a Cabinet meeting chaired by Chief Minister Eknath Shinde.
- The amount is in addition to 6,000 rupees being paid to farmers by the Centre under the PM Kisan Yojana.
- Maharashtra Cabinet also approved implementation of 'Gender Inclusive Tourism Policy called 'Aai' to empower women in the tourism sector.

**S140. Ans.(b)**

**Sol.** JSW Steel has received the prestigious GreenPro ecolabel for its 'Automotive Steel' products.

**Additional info:**

- The GreenPro ecolabel, developed by the Confederation of Indian Industry's (CII) Green Business Centre, recognizes the highest standards of environmental sustainability and product performance in the Indian manufacturing sector.
- JSW Steel Vijayanagar's 'Automotive Steel' products have undergone rigorous assessments and met the stringent criteria set by the GreenPro certification.
- This remarkable accomplishment demonstrates JSW Steel's commitment to producing high-quality, sustainable steel solutions for the automotive industry.

- The GreenPro ecolabel signifies that JSW Steel's products are manufactured with due care to its environmental impact throughout their lifecycle, including raw material sourcing, production processes, energy consumption, and end-of-life management.

**S141. Ans.(d)**

**Sol.** Eden Park Stadium is located in **New Zealand**.

**Additional info:**

- It New Zealand's largest sports stadium which has a capacity of 50,000.
- It is located in central Auckland, New Zealand's largest city.

**S142. Ans.(c)**

**Sol.** According report "Turning off the Tap: How the World Can End Plastic Pollution and Create a Circular Economy," global plastic pollution can be reduced by up to 80% by the year **2040**.

**Additional info:**

- The global plastic pollution can be reduced by up to 80% by 2040, according to the United Nations Environment Programme's (UNEP) report, "Turning off the Tap: How the World Can End Plastic Pollution and Create a Circular Economy," if businesses and governments implement policies and market changes using current technologies.
- The research, which was made public prior to the second round of negotiations in Paris, France, attempts to reach an agreement on a precedent-setting global plastics convention to fight plastic pollution.
- The second session of the Intergovernmental Negotiating Committee, or INC2, the treaty negotiations, will take place from May 29 to June 2, 2023.
- The convention would cover every stage of a plastic's life cycle, from production through disposal.

**S143. Ans.(d)**

**Sol.** Sukhvinder Singh Sukhu, Chief Minister of **Himachal Pradesh**, started the Himcare scheme for jail inmates by distributing Himcare cards at Shimla's Model Central Jail Kanda.

**Additional info:**

- The project intends to cover the cost of inmates' premiums, relieving their financial burden while incarcerated(d)
- ISHTH Campaign: At Kanda Jail, the CM also presided over the launch of the Integrated campaign against STI (Sexually Transmitted Infections), HIV (Human Immunodeficiency Viruses), TB (Tuberculosis), and Hepatitis (ISHTH) in prisons and other closed settings, which will screen and treat prisoners across the stat(e)
- The State Government's activities aim to reduce infections and move towards eliminating AIDS (Acquired Immune Deficiency Syndrome) by 2030.

**S144. Ans.(a)**

**Sol.** **ICICI bank** has recently collaborated with Zomato to introduce the Unified Payments Interface (UPI) service called 'Zomato UPI' for select users of ICICI Bank.

**Additional info:**

- Through the partnership, Zomato customers will be able to pay within the Zomato app using their ICICI Bank UPI ID.
- Users will be able to pay for their food orders more quickly and easily as a result.
- Zomato will be able to lower its transaction expenses thanks to the partnership.
- Additionally, it will aid ICICI Bank in growing its customer base and market share.
- Both Zomato and ICICI Bank benefit from the partnership.

#### **S145. Ans.(c)**

**Sol.** In a boost to the Indian space startup industry, Gujarat-based aerospace firm Azista BST Aerospace launched its maiden satellite, Azista BST Aerospace First Runner (AFR), also called ABA First Runner. The satellite was launched as part of the **Elon Musk-led SpaceX** Transporter-8 mission, atop a Falcon 9 rocket, from Space Launch Complex 4E, Vandenberg Space Force Base, California, at 2.49am (IST).

#### **Additional info:**

- Azista BST Aerospace is an Indo-German satellite manufacturing joint venture floated by India's Azista Industries Pvt. Ltd (70% stake) and Berlin Space Technologies GmbH (30% stake).
- AFR is equipped with an optical remote sensing payload with both panchromatic and multispectral imaging capabilities.
- The satellite will provide a panchromatic image with 5-metre resolution with a swath of 70km.
- It is the first satellite of its size and performance built by the private space industry in India, capable of supporting various critical applications for civilian and defence purposes.

#### **S146. Ans.(d)**

**Sol.** In India, **Payments Banks** are not allowed to do lending activities.

#### **Additional Info:**

- Commercial banks, non-profit organisations, NBFC-MFIs, and NBFCs all offered microloans.
- There were 136.3 million loan accounts in the microfinance sector in FY23, up from 123.9 million in FY22, a 10% rise year-over-year (y-o-y).
- According to lender-wise data, NBFCs experienced the biggest year-over-year increase, at 23%, followed by NBFC-MFIs at 15%, banks at 6%, not-for-profits or NFPs at 6%, and small financing banks at 5%.

#### **S147. Ans.(d)**

**Sol.** Hanoi is the capital of Vietnam

#### **Additional info:**

- It is the capital and second-largest city of Vietnam.
- It covers an area of 3,359.82 km (1,297.2 sq mi).
- It consists of 12 urban districts, one district-leveled town and 17 rural districts.
- It is located within the Red River Delta of Northern Vietnam.

#### **S148. Ans.(a)**

**Sol.** Maria Stepanova's novel, **In Memory of Memory**, which delves into the themes of Stalinism and the collapse of the Soviet Union, earned her a nomination for the Booker Prize in 2021.

#### **Details:**



- **Maria Stepanova**, a renowned **Russian writer** currently residing in Berlin, has been awarded the **Leipzig Book Prize for European Understanding** in 2023.
- The Leipzig Book Prize for European Understanding is a prestigious literary award that has been awarded annually **since 1994**.
- The prize aims to promote a greater understanding of European cultures by recognizing outstanding works of fiction, non-fiction, and poetry that contribute to this goal.

#### **S149. Ans.(a)**

**Sol. India and Russia** have agreed to explore the possibility of accepting each other's payment cards, **RuPay and Mir**, for hassle-free payments between the two countries.

#### **Details:**

- Mutual acceptance of RuPay and Mir cards will **facilitate transactions in Indian rupees and Russian rubles**, making it easier for citizens of both countries to carry out cross-border payments.
- Currently, overseas payments from India and Russia are made through **the SWIFT network**, and exploring alternative payment options is necessary to minimize the impact of sanctions imposed on Russia by the West.

#### **Russia Static Facts:**

- ❖ **Capital:** Moscow
- ❖ **Currency:** Ruble

#### **S150. Ans.(b)**

**Sol.** India has announced that it will participate in the **International Civil Aviation Organisation's (ICAO) Carbon Offsetting and Reduction Scheme for International Aviation (CORSA)** and the **Long-Term Aspirational Goals (LTAG) from 2027**.

#### **Details:**

- ICAO has been tasked with reducing carbon emissions from international civil aviation.
- To achieve this goal, the global body has adopted several key aspirational goals, including a two percent annual fuel efficiency improvement through **2050**, carbon-neutral growth, and net zero by 2050.
- These goals are clubbed under **CORSA and LTAG**.
- CORSA is to be implemented in three phases, and financial implications due to offsetting have to be borne by individual airlines, depending upon their international operations. It is applicable only to flights originating from one country to another.

#### **International Civil Aviation Organisation Static Facts:**

- ❖ **Headquarters:** Montreal, Canada
- ❖ **Founded:** 1944

#### **S151. Ans.(e)**

**Sol.** Japanese **table tennis star Kasumi Ishikawa**, who won three women's team medals at three consecutive Olympic Games, announced her retirement.

#### **Details:**

- Ishikawa, who won five national women's singles championships, was a key figure when the Japanese women's team won the silver medal, the country's first Olympic table tennis medal, at **London 2012**.



- She went on to help Japan win the women's **bronze medal in Rio 2016** and **silver again in Tokyo 2020**.

### S152. Ans.(c)

**Sol.** The **Nuclear Power Corporation of India Limited** is an Indian public sector undertaking based in **Mumbai, Maharashtra**.

#### Details:

- **National Thermal Power Corporation (NTPC)** signed a supplementary joint venture agreement with the **Nuclear Power Corporation of India Limited (NPCIL)** to develop nuclear power projects in the country.
- The two companies will initially focus on developing two pressurized heavy-water reactors (PHWR) projects: the Chutka Madhya Pradesh Atomic Power Project (2×700 MW) and the Mahi Banswara Rajasthan Atomic Power Project (4×700 MW).
- These projects were identified as part of fleet-mode nuclear projects.

#### Details About National Thermal Power Corporation:

- ❖ The **NTPC** which was earlier known as the **National Thermal Power Corporation of India** is owned by the Government of India.
- ❖ It is a **coal-based power plant** owned and operated by NTPC.
- ❖ **Founded:** 1975
- ❖ **Headquarters:** New Delhi

### S153. Ans.(d)

**Sol.** The name of the tool is **GBMDriver**.

#### Details:

- Researchers at the Indian Institute of Technology Madras have developed a machine learning-based computational tool called GBMDriver to improve the detection of cancer-causing tumours in the brain and spinal cord.
- The tool is freely accessible and was primarily developed to identify driver mutations and passenger mutations in glioblastoma, a rapidly proliferating tumour.

### S154. Ans.(c)

**Sol.** Starting from May 1, 2023, businesses with an annual turnover of **Rs 100 crore or more** are required to **abide by a new GST rule**.

#### Details:

- This rule mandates the **uploading of electronic invoices on the Invoice Registration Portal (IRP) within seven days** of their issue.
- The IRP is utilized to **validate that these invoices are actually genuine** and to assign them a unique Invoice Reference Number for GST purpose.
- Therefore, taxpayers must ensure that they report the invoice within the given time frame as they **cannot avail the Input Tax Credit (ITC) if the invoice is not uploaded on the Integrated Reporting Portal (IRP)**.

### S155. Ans.(d)

**Sol. Shah Rukh Khan** and 'RRR' director **SS Rajamouli** are included in Time Magazine's annual 100 Most Influential People of 2023, becoming the only two Indians on the list.

**Details:**

- Both SRK and Rajamouli's last big screen ventures, Pathaan and RRR, earned over Rs 1000 crore worldwide.
- The esteemed list by Time magazine includes the likes of US President **Joe Biden, King Charles, billionaire CEO Elon Musk, Bella Hadid, and Beyonce**, among others.
- This year's list features **50 women**.
- **Joe Biden** is on the list for the **6th time**, more than any other person on the list this year. Other repeats include- **Elon Musk (5), Janet Yellen (4), Lionel Messi (3), Beyoncé (3), Luiz Inácio Lula da Silva (3), Mitch McConnell (3)**, and more.
- **Iga Swiatek**, 21 years old, is the **youngest person** on this year's list.
- The **oldest person** on this year's list is **Judy Blume**, who is 85 years old.

**S156. Ans.(d)**

**Sol.** Indian Naval Ships **Satpura** and **Delhi** led by RAdm Gurcharan Singh, the Flag Officer Commanding Eastern Fleet, arrived in Singapore to participate in the inaugural ASEAN India Maritime Exercise (AIME-2023).

**Details:**

- INS Delhi, India's first indigenously-built guided missile destroyer, and INS Satpura, an indigenously-built guided missile stealth frigate, are part of the Indian Navy's Eastern Fleet based in Visakhapatnam.

**S157. Ans.(c)**

**Sol. Meera Syal**, a renowned actor and writer of Indian origin based in the UK, is set to receive the prestigious **BAFTA Fellowship**, the highest honour awarded by the British Academy of Film and Television Arts.

**Details:**

- The award recognizes Syal's exceptional contributions to film and television and is the latest recognition of her achievements in the arts, which include being made an MBE and then a CBE by Queen Elizabeth II.

**S158. Ans.(a)**

**Sol.** Officials announced that the deadline for the Smart Cities Mission will be extended until **June 2024**, as requested by some cities that require additional time to finish their ongoing projects.

**Details:**

- The Union Housing and Urban Affairs Ministry decided to extend the existing deadline of June 2023.

**Smart Cities Mission:**

❖ National Smart Cities Mission is an urban renewal and retrofitting program by the Government of India with the mission to develop smart cities across the country, making them citizen friendly and sustainable.

❖ **Launched Year:** 2015

❖ **Ministry:** Ministry of Housing and Urban Affairs

**S159. Ans.(d)**

**Sol.** Every year on **May 3**, we observe World Press Freedom Day to increase understanding of the significance of a press that is free and not influenced by external forces.

**Details:**

- This year's World Press Freedom Day focuses on the theme of **"Shaping a Future of Rights: Freedom of Expression as a Driver for All Other Human Rights,"** which emphasizes the critical role of freedom of expression in safeguarding and promoting other human rights.
- The UNESCO General Conference **proposed the idea** of World Press Freedom Day in **1991** to celebrate and promote the fundamental principles of press freedom. In **1993, the UN General Assembly passed a resolution to officially declare** May 3 as World Press Freedom Day.

**Details Related to Options:**

- ❖ **July 11** World Population Day
- ❖ **October 7** World Cotton Day
- ❖ **9<sup>th</sup> November** World Legal Services Day
- ❖ **1<sup>st</sup> May** International Workers' Day

**S160. Ans.(c)**

**Sol.** The Supreme Court of India has granted couples the right to divorce on the grounds of "irretrievable breakdown of marriage" under **Article 142** of the Constitution.

**Details:**

- This ruling applies to cases where both parties seek a mutual consent divorce or where one partner seeks a divorce despite opposition from the other.
- Article 142 of the Constitution empowers the Supreme Court to give precedence to equity over law in the pursuit of "complete justice" in a matter.



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## IBPS RRB Clerk Mains Previous Year Questions 2022

**Directions (1-4): Study the following information carefully and answer the questions given below.**

A certain number of persons sit in a linear row such that all of them face north direction. Four persons sit between P and Y who sits two persons away from K. T sits third to the right of K. The number of persons sits between Y and T is same as the number of persons sits between T and W. R sits between P and Y. The number of persons sits between R and K is an odd number but not multiple of 5. Q sits fourth to the right of W. Even number of persons sits between T and X who sits to the left of W. Q is the only immediate neighbor of J. More than one person sits between R and U who sits adjacent to P. The number of persons sits to the right of J is one less than the number of persons sits to the left of U.

**Q1. How many persons sit in the row?**

- (a) 27
- (b) 29
- (c) 23
- (d) 30
- (e) 33

**Q2. Which among the following statement(s) is/are true?**

- I. Only one person sits to the left of U
- II. More than ten persons sit to the right of T
- III. X sits to the right of W

- (a) Only III
- (b) Both I and II
- (c) Both II and III
- (d) Only I
- (e) All I, II and III

**Q3. If B sits exactly between Y and X then how many persons sit to the left of B?**

- (a) 11
- (b) 13
- (c) 12
- (d) 18
- (e) 15

**Q4. Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group?**

- (a) U
- (b) Y
- (c) T
- (d) W
- (e) J

**Directions (5-7):** Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

**Q5. Statements:** Only a few high is lower

Some lower is rate

All rate are map

**Conclusions:**

- (a) All high can be lower
- (b) Some lower is not high
- (c) No rate is high
- (d) All rate being lower is a possibility
- (e) None follows

**Q6. Statements:** Some plants are not grass

Some trees are plants

Only trees are forest

**Conclusions:**

- (a) All grass can be forest
- (b) Some plants can never be forest
- (c) All grass is tree
- (d) Some trees being grass is not a possibility
- (e) None follows

**Q7. Statements:** Only a few cutters are sharp

All perfect are shaped

No sharp is perfect

**Conclusions:**

- (a) All cutter can never be perfect
- (b) Some shaped are definitely not sharp
- (c) Some sharp being shaped is a possibility
- (d) All cutter can be shaped
- (e) All follow

**Directions (8-11):** Study the following information carefully and answer the questions given below.

Eleven boxes – L, M, N, O, P, Q, R, S, T, U and V are kept one above another in a single stack but not necessarily in the same order.

Only one box is kept between box L and box Q. Box V is kept three boxes above box L. The number of boxes kept above box V is the same as the number of boxes kept below box U. Not more than one box is kept above box V. Box Q is not kept seven boxes above box U. Only three boxes are kept between box L and box R which is not kept immediately above box V. The number of boxes kept between box S and box U is a perfect cube of an even number. More than two boxes are kept between box S and box Q. No box is kept between box T and box P. Only three boxes are kept between box N and box P. The number of boxes kept between box M and box N is same as the number of boxes kept between box L and box Q. Box M is kept above box O whereas not less than two boxes are kept below box O.

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**Q8. Which of the following statements is/are true with respect to the final arrangement?**

- (a) Box S is kept at the top-most position
- (b) Both box O and box R are not kept adjacent to each other
- (c) Box L is kept below box N
- (d) Box P is kept adjacent to box R
- (e) None of these

**Q9. Which of the following box is kept third from the top?**

- (a) Box N
- (b) Box L
- (c) Box V
- (d) Box S
- (e) None of these

**Q10. If all the boxes are arranged in the alphabetical order from top to bottom, then how many boxes will remain unchanged in its position?**

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q11. Which of the following box is kept three boxes above box T?**

- (a) The box which is kept two boxes above box Q
- (b) The box which is kept immediately below box U
- (c) The box which is kept two boxes below box L
- (d) The box which is kept three boxes below box R
- (e) None of these

**Q12. In the word "CONTEMPORARY", if the letters are arranged in reverse alphabetical order from the left end, then which of the following consonant will be the third to the left of the vowel which is second from the right end?**

- (a) R
- (b) M
- (c) N
- (d) P
- (e) T

**Directions (13-16):** Study the following information carefully and answer the questions given below.

Ten persons viz. Q, R, S, T, U, V, W, X, Y and Z are sit in a straight line such that some of them are facing north while some are facing south. Not more than two adjacent persons face the same direction. The consecutive alphabetically named person doesn't sit adjacent to each other.

W sits fourth from one of the extreme ends. Y sits second to the right of W where both faces opposite directions. Only three persons sit between Y and Z where at least one person sits on both sides of Z. The number of persons sit to the right of Z is one less than the number of persons sit to the left of U where both face the same direction. Z doesn't sit adjacent to U. Only one person sits between V and X who faces south and opposite direction to V. Only two persons sit between R and S. More than two persons sit between R and Q who faces north. The immediate neighbours of X faces the same direction i.e., if one person faces south, then the other faces south and vice versa. At least two persons sit between T and S where both T and R face the same direction.

**Q13. The number of persons sit to the right of R is one more than the number of persons sit to the**

- \_\_\_\_\_.
- (a) Left of Z
  - (b) Right of V
  - (c) Left of Q
  - (d) Right of T
  - (e) None of these

**Q14. How many persons sit between W and R?**

- (a) One
- (b) Two
- (c) Three
- (d) More than three
- (e) None

**Q15. Who among the following person sits second to the left of T?**

- (a) S
- (b) The one who sits fourth to the right of X
- (c) Z
- (d) The one who sits at one of the ends
- (e) None of these

**Q16. What is the position of Q with respect to Y?**

- (a) Fifth to the right
- (b) Fourth to the left
- (c) Fifth to the left
- (d) Fourth to the right
- (e) None of these



**Directions (17-19):** Study the following information carefully and answer the questions given below.

**Q17.** Which of the following symbols should replaces the blanks (I and II) respectively so that “ $J < F$ ” is definitely true?

$X > R = S \geq J < K \leq M$  (I)  $T < W$  (II)  $Z = F \geq B$

- (a)  $>$ ,  $<$
- (b)  $\leq$ ,  $=$
- (c)  $\leq$ ,  $\geq$
- (d)  $=$ ,  $\geq$
- (e) None of these

**Q18.** Which of the following symbols should replaces the blanks (I and II) respectively so that “ $U \geq F$ ” is definitely false?

$D < V \leq K > U$  (I)  $R \leq S < W \leq M = B$  (II)  $F \geq P$

- (a)  $\geq$ ,  $>$
- (b)  $>$ ,  $=$
- (c)  $\leq$ ,  $\geq$
- (d)  $<$ ,  $\leq$
- (e) None of these

**Q19.** Which of the following order of letters in the blanks makes the expression  $L > M$  is definitely true?

$\_ < \_ = \_ \geq \_ > \_ \geq \_ \leq \_$

- (a) U, B, L, H, K, C, M
- (b) M, U, H, L, B, K, C
- (c) U, L, B, H, K, M, C
- (d) L, U, B, H, M, K, C
- (e) None of these

**Directions (20-23):** Study the following information carefully and answer the below questions.

Six persons- O, P, Q, R, S and T bought the shirts on different days of the same week starting from Monday to Saturday. They bought different color shirts- Violet, Purple, Brown, Grey, Pink, and Black. All the information is not necessarily in the same order.

T bought the shirt three days before the one who bought the Grey color shirt. As many persons bought before T as after Q. Only one day is there between the one who bought Pink color shirt and Q. The one who bought the Purple color shirt bought immediately before the one who bought the Brown color shirt. Q does not buy the Brown color shirt. O bought immediately before the one who bought the Black color shirt. Neither R nor S bought the violet color shirt. R bought before S but not before P.

**Q20.** How many persons bought the shirts between P and the one who bought the Purple color shirts?

- (a) As many persons bought the shirts between O and S
- (b) Two
- (c) One
- (d) As many persons bought the shirts before R
- (e) None

**Q21. Who among the following person bought Brown color shirts?**

- (a) The one who bought immediately before S
- (b) The one who bought immediately after P
- (c) T
- (d) Q
- (e) P

**Q22. Which of the following combination is true?**

- (a) Q-Black
- (b) S-Brown
- (c) O-Pink
- (d) R-Purple
- (e) P-Grey

**Q23. Which of the following color shirt does T buy?**

- (a) Brown
- (b) Purple
- (c) Black
- (d) Grey
- (e) Pink

**Q24. If the fourth letter from the right end of each word is taken then which of the following combination formed a meaningful word?**

I. Sacks, Budget, Corner, Sweet

II. Papaya, Brown, Number, Multiple

III. Black, Mother, Queen, Course

- (a) Both II and III
- (b) Only III
- (c) Only I
- (d) Only II
- (e) All I, II and III

**Directions (25-28): Study the following information carefully and answer the questions given below.**

Eight persons- A, B, C, D, E, F, G and H are working in a company at different designations such as Chief Financial officer (CFO), Executive Director (ED), General Manager (GM), Deputy General Manager (DGM), Manager, Assistant Manager (AM), PO and Clerk whereas the chief financial officer (CFO) is the senior most designation and the clerk is the junior most designation. Each of them belongs to different cities- Agra, Indore, Udaipur, Jaipur, Pune, Haridwar, Meerut and Mathura. All the information is not necessarily in the same order.

The one who belongs to Pune is three designations senior to D. Not more than three persons are senior to the one who belongs to Pune. B is just senior to the one who belongs to Pune. F is designated as just junior to D. Two persons are designated between F and the one who belongs to Meerut. The number of persons designated between D and F is two less than the number of persons designated between E and D. The one who belongs to Mathura is two designations senior to E. H is just junior to C. Three persons are designated between C and the one who belongs to Agra. G is junior to the one who belongs to Agra and senior to the one who belongs to Indore. The number of persons designated as senior to the one who belongs to Indore is same as the number of persons designated as junior to the one who belongs to Udaipur. The one who belongs to Jaipur is designated as just junior to the one who belongs to Indore.

**Q25. Who among the following belongs to Haridwar?**

- (a) The one who is designated as PO
- (b) G
- (c) D
- (d) The one who is designated as clerk
- (e) E

**Q26. Who among the following is designated as Manager?**

- (a) E
- (b) The one who belongs to Meerut
- (c) A
- (d) The one who is two persons junior to A
- (e) G

**Q27. How many persons are designated between the one who belongs to Agra and the one who is designated as just senior to D?**

- (a) Five
- (b) Three
- (c) Four
- (d) Six
- (e) Two

**Q28. Which among the following statement(s) is/are true?**

- (a) A is designated at the senior most designation
- (b) More than four persons are designated as senior to H
- (c) The one who belongs to Jaipur is designated as PO
- (d) The one who belongs to Mathura is just junior to the one who is designated as CFO
- (e) All are true

**Directions (29-32): Study the following information carefully and answer the questions given below.**

Aman started walking from point J towards the north. After walking for 10km he reached point K and then he takes a left turn and walks for 18 m to reach point L. From L he takes a right turn and walks for 20 m to reach point M. From M he takes two consecutive left turn and walks for 30 m and 12 m to reach points N and O respectively.

Bablu started walking from point T towards the east for 12 m to reach point P. Then he takes a right turn and walks for 25 m to reach point Q. Then he turns east and walks for 16 m to reach point R. Then he takes a right turn and walks for 27 m to reach point S. Then he takes a right turn and walks for 20 m to reach point O.

**Q29. What is the direction of L with respect to point R?**

- (a) North-east
- (b) North-west
- (c) South-east
- (d) South-west
- (e) Can't be determined

**Q30. Four of the following five are alike in a certain way based on the directions in the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- (a) SN
- (b) MK
- (c) RL
- (d) NJ
- (e) PK

**Q31. What is the shortest distance between point N and point S?**

- (a)  $\sqrt{540}$  m
- (b)  $\sqrt{544}$  m
- (c)  $\sqrt{504}$  m
- (d)  $\sqrt{554}$  m
- (e)  $\sqrt{520}$  m

**Q32. What is the total distance between point R and point L?**

- (a) 44 m
- (b) 45 m
- (c) 46 m
- (d) 47m
- (e) 48 m



**BILINGUAL**

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**Q33. If in the number "4785396281", positions of the first and the sixth digits are interchanged, positions of the second and seventh digits are interchanged and so on till the positions of fifth and tenth digits are interchanged, then what is the sum of the digits which are 3<sup>rd</sup> from right end, 2<sup>nd</sup> from the left end and 4<sup>th</sup> from the left end?**

- (a) 27
- (b) 22
- (c) 30
- (d) 32
- (e) 34

**Directions (34-37): Study the following information carefully and answer the questions given below.**

Eleven persons sit around a circular table such that all of them face towards the centre of the table. Only two persons sit between P and U (either from left or right). W sits three persons away from U. Q sits adjacent to U. S sits third to the left of Q. The number of persons sit between S and W is multiple of 4 when counts from the right of S. Z sits adjacent to P and three persons away from Y. W doesn't sit adjacent to Y. X sits third to the left of V. R sits second to the left of T.

**Q34. How many persons sit between R and Y when counted from the left of Y?**

- (a) Four
- (b) Three
- (c) Five
- (d) Six
- (e) Two

**Q35. Which among the following statement(s) is/are not true?**

- (a) R sits third to the right of Q
- (b) No one sits between T and Z when counts from the left of Z
- (c) Even number of persons sit between T and U when counts from the left of U
- (d) V sits adjacent to the one who sits second to the left of S
- (e) All are true

**Q36. If Q is related to S, in the similar way W is related to U then who among the following is related to V?**

- (a) P
- (b) T
- (c) X
- (d) Z
- (e) None of these

**Q37. Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group?**

- (a) WX
- (b) SP
- (c) TV
- (d) UY
- (e) PW

**Directions (38-40): Study the following information carefully and answer the questions given below.**

A family of three generation consist of eight members and two married couples. R is the brother-in-law of G and vice-versa. Both S and Rare siblings. S has only one sister. H is the child of T and parent of E. U is the father-in-law of G. Both S and U are of the same gender. U is the spouse of T. O is the paternal grandmother of H's child. E is of the same gender as U.

**Q38.How many female members are there in the family?**

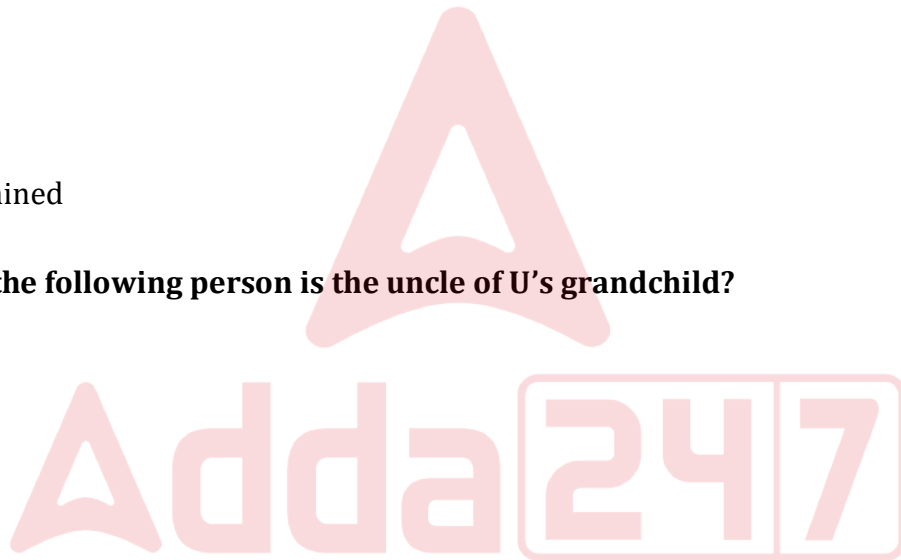
- (a) 6
- (b) 3
- (c) 4
- (d) 5
- (e) Can't be determined

**Q39.How is E related to R?**

- (a) Sister
- (b) Brother
- (c) Nephew
- (d) Niece
- (e) Can't be determined

**Q40.Who among the following person is the uncle of U's grandchild?**

- (a)R
- (b)S
- (c)H
- (d) Both R and S
- (e) Both S and H



**Directions (41-45): Given below are five sentences, with four words highlighted in each sentence. One of these words may be the misspelled form of a word, making the sentence contextually incoherent. Mark the option which depicts the corresponding letter to the incorrectly spelled word, or mark option (e) if there is none.**

**Q41. The audacious (A) mountaineer embarked (B) on a perilous (C) expedition to scale the formidable (D) peak.**

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No spelling errors

**Q42.** The **convoluted (A)** legal **jargon (B)** in the **contract (C)** was difficult to **decipher (D)** without legal expertise.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No spelling errors

**Q43.** The **ubiquitous (A)** use of technology has **catalyzed (B)** a **paradigm (C)** shift in the way we **communicate (D)**.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No spelling errors

**Q44.** The **garrulous (A)** politician delivered a **bombastic (B)** speech, **extolling (C)** the virtues of his policies and **disparaging (D)** his opponents with scathing remarks.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No spelling errors

**Q45.** The **magnanimous (A)** philanthropist donated a **prodigious (B)** sum of money to fund research into **curing (C)** rare diseases, demonstrating his **altruistic (D)** spirit.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No spelling errors

**Directions (46-53): Read the passage given below and answer the following questions.**

The ongoing conflict between Russia and Ukraine has had far-reaching impacts on both countries, as well as on the global economy. One of the lesser-known consequences of the war is the impact it had on the production and export of mustard oil. Mustard oil is an important agricultural commodity in both Russia and Ukraine, with significant production and export capabilities. However, since the start of the conflict, the trade routes between the two countries have been severely disrupted, making it difficult for farmers and producers to transport their goods across the border. This has resulted in a shortage of mustard oil in some parts of the world, particularly in countries that **rely** heavily on imports from Russia and Ukraine. The rise in demand for this essential oil has also led to a surge in prices, making it more expensive for consumers to purchase. Furthermore, the war has also had a significant impact on the farmers and producers of mustard oil in both Russia and Ukraine.



The war has also exacerbated existing tensions and divisions within both Russia and Ukraine, as well as among their allies and international partners. The international community has struggled to find a solution to the conflict, with many countries imposing economic sanctions on Russia in response to its actions in Ukraine. Despite numerous attempts at peace negotiations and ceasefires, the conflict has continued to escalate over the years, with both sides blaming the other for the ongoing violence and unrest. The impact of the war has been felt not only in Ukraine and Russia but also in neighboring countries and beyond. As the situation continues to unfold, it is important for the international community to remain engaged and committed to finding a peaceful resolution to the conflict. Only through diplomatic efforts and a commitment to dialogue and **compromise** can we hope to bring an end to the suffering and instability caused by the Russia-Ukraine war.

The shortage of mustard oil caused by the Russia-Ukraine conflict has had a significant impact on those who rely on this oil for its health benefits. Some have turned to alternative sources of oils with similar properties, such as olive oil. However, the scarcity of mustard oil has also led to an increase in demand for alternative oils, such as rapeseed and sunflower oil. As the conflict continues, it is unclear how long the shortage of mustard oil will persist, and what the long-term impacts will be. However, it is clear that the war has disrupted the production and trade of this important commodity, with far-reaching effects on both the local and global economy, as well as on the health and well-being of those who rely on this oil for its nutritional and therapeutic properties.

**Q46.** What is the impact of the Russia-Ukraine conflict on the production and export of mustard oil?

- (a) Farmers and producers find it challenging to transport their products across the border.
- (b) The conflict has led to an increase in the production and export of mustard oil in both countries.
- (c) The substantial disruption of the commercial channels between the two nations has decreased.
- (d) The conflict has led to the establishment of new trade routes for the transportation of mustard oil.
- (e) Both (a) and (c)

**Q47.** How has the war between Russia and Ukraine affected international relations?

- (a) The conflict has brought about greater cooperation and unity among countries.
- (b) The international community has been divided in its response to the conflict.
- (c) The war has had no significant impact on agreements of international relations.
- (d) The conflict has even led to an increase in global trade and economic activity.
- (e) All of these

**Q48.** How have consumers responded to the shortage of mustard oil caused by the conflict between Russia and Ukraine?

- (i) By reducing their consumption of oils
  - (ii) By increasing their consumption of mustard oil
  - (iii) By turning to alternative sources of oils
- (a) Only (i) and (ii)
  - (b) Only (iii)
  - (c) All of these
  - (d) Only (ii) and (iii)
  - (e) None of these

**Q49.** What is/are the impact(s) of the shortage of mustard oil caused by the Russia-Ukraine conflict?

- (a) Consumers have had to pay more for mustard oil due to the surge in prices.
- (b) The demand for alternative oils, such as rapeseed and sunflower oil, has decreased.
- (c) There has been no impact on the global economy due to the shortage of mustard oil.
- (d) Only (b) and (c)
- (e) All of these

**Q50.** What is one of the impacts of the Russia-Ukraine conflict on farmers and producers of mustard oil in both countries?

- (a) An increase in the quality of mustard oil
- (b) A decrease in the demand for mustard oil
- (c) A decrease in the price of mustard oil
- (d) A decrease in the productivity of mustard oil
- (e) An increase in trade between closed countries

**Q51.** Which of the following idiomatic phrases best conveys the intended meaning of the word "**compromise**," as highlighted in the given passage?

- (a) Go for broke
- (b) All or nothing
- (c) Stand your ground
- (d) Meet halfway
- (e) Dig in your heels

**Q52.** According to the given passage, what is/are the optimum way(s) to bring an end to the Russia-Ukraine conflict?

- (a) Diplomatic efforts and a commitment to dialogue and compromise.
- (b) Economic sanctions against both Russia and Ukraine.
- (c) Military intervention by the international community.
- (d) Both (b) and (c)
- (e) All of these

**Q53.** Which one of the following words is opposite in meaning to the word "**RELY**," as highlighted in the given passage?

- (a) conviction
- (b) aphorism
- (c) precept
- (d) wariness
- (e) credence



**Directions (54-60):** In each of the following questions, a sentence has been divided into four parts in which one part has an error. Identify the part that has an error and mark that part as your answer. If all parts are error-free then choose 'No Error' as your correct choice.

**Q54.** The serene beach, (A)/ with its crystal-clear waters and powdery sand, (B)/ have the perfect spot to (C)/ unwind after a long week of work. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q55.** Despite the fact that (A)/ the weather had not ideal, (B)/ the group decided to proceed (C)/ with the planned hiking trip. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q56.** The book was too difficult (A)/ for me to understand, (B)/ so I decided to (C)/ read a summary online. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q57.** Although I don't (A)/ really like spicy food, (B)/ I decided try the hot wings (C)/ and ended up regretting it later. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q58.** Sarah had always dreamed (A)/ of traveling the world, (B)/ but she never imagined she will end (C)/ up living in a small village in rural Italy. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q59.** Obesity is complex health issue (A)/ that requires individual and (B)/ collective efforts to prevent (C)/ chronic diseases and promote well-being. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Q60.** Healthcare inequality affects (A)/ vulnerable populations but (B)/ demand the equitable distribution (C) of resources and services. (D)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No Error

**Directions (61-67):** In each of the following questions, a sentence has been given with two blanks. For each question, five options are given, each containing two words. You have to choose the most suitable option that fits both the blanks grammatically and contextually.

**Q61.** \_\_\_\_\_ the fact that we come from different backgrounds and have different opinions, we can \_\_\_\_\_ work together towards a common goal.

- (a) Because of, but
- (b) Despite, still
- (c) Due to, unless
- (d) However, even
- (e) Since, anyhow

**Q62.** \_\_\_\_\_ taking a few minutes to plan out my day and set some goals, I was able to stay productive and focused \_\_\_\_\_ the day.

- (a) For, all over
- (b) Into, through
- (c) By, throughout
- (d) To, all the time
- (e) From, besides

**Q63.** \_\_\_\_\_ the right attitude and a little bit of luck, \_\_\_\_\_ is possible in life.

- (a) Since, something
- (b) Though, anything
- (c) Even, everything
- (d) With, anything
- (e) However, nothing

**Q64.** \_\_\_\_\_ the summer, I like to go swimming in the lake and spend time \_\_\_\_\_ my family.

- (a) Outside of, in
- (b) During, with
- (c) Before, along
- (d) Besides, from
- (e) After, through

**Q65.** \_\_\_\_\_ going to the party, I stopped \_\_\_\_\_ the store to pick up some snacks and drinks.

- (a) While, into
- (b) Amidst, for
- (c) When, onto
- (d) Before, by
- (e) Behind, from

**Q66.** In addition \_\_\_\_\_ studying for my exam, I need to work \_\_\_\_\_ my research paper.

- (a) for, by
- (b) to, on
- (c) in, in
- (d) by, for
- (e) of, for

**Q67.** Without \_\_\_\_\_ hesitation, she jumped \_\_\_\_\_ the pool and swam to the other side.

- (a) none, for
- (b) some, by
- (c) many, in
- (d) any, into
- (e) little, to

**Directions (68-73):** There are six sentences given below in the jumbled form. You have to rearrange the given sentences to make a contextually meaningful paragraph and answer the following questions:

- (A) When inflation rises, the purchasing power of consumers decreases, and the cost of living increases.
- (B) However, if inflation continues to rise, it can lead to hyperinflation, which can have catastrophic effects on the economy.
- (C) This, in turn, leads to reduced spending and lower demand for goods and services.
- (D) Inflation is the general increase in prices of goods and services in an economy over time.
- (E) Businesses respond to this by reducing production and laying off workers, causing a decrease in economic growth.
- (F) It has a significant impact on the overall economic conditions of a country.

**Q68.** Which of the following would be the **THIRD** sentence after rearrangement?

- (a) A
- (b) B
- (c) E
- (d) F
- (e) C

**Q69.** Which of the following would be the **FIRST** sentence after rearrangement?

- (a) E
- (b) C
- (c) D
- (d) A
- (e) B

**Q70.** Which of the following would be the **SECOND** sentence after rearrangement?

- (a) A
- (b) B
- (c) E
- (d) F
- (e) C

**Q71.** Which of the following would be the **FIFTH** sentence after rearrangement?

- (a) B
- (b) A
- (c) D
- (d) C
- (e) E

**Q72.** Which of the following would be the **LAST** sentence after rearrangement?

- (a) F
- (b) B
- (c) E
- (d) D
- (e) C

**Q73.** Which of the following would be the correct rearrangement of the given sentences?

- (a) DFACEB
- (b) CBEADF
- (c) ACEBDF
- (d) DEBFCA
- (e) FAEDCB

**Directions (74-80):** In each of the following questions, a sentence is given with a highlighted phrasal verb. For each question, five sentences are given as options, conveying the intended meaning of the sentence given in the question. Choose the sentence that conveys the intended meaning in the most appropriate way.

**Q74.** He's got a chip on his shoulder because he didn't get the promotion.

- (a) He is carrying a potato chip on his shoulder for no apparent reason.
- (b) He is feeling resentful because he believes he deserved the promotion.
- (c) He has a literal chip on his shoulder, causing him physical discomfort.
- (d) He is angry at his colleague and manager who did get the promotion.
- (e) He has a microchip embedded in his shoulder that is causing him problems.

**Q75.** She's always looking for a silver lining, even in the toughest of situations.  
(a) She is obsessed with the color silver and is always looking for things of that color.  
(b) She wears silver lining clothes that make her stand out.  
(c) She only looks for the positive aspects in easy situations.  
(d) She is always searching for a piece of silver lining in a dark room.  
(e) She tries to find something positive even in the most challenging situations.

**Q76.** She was walking on thin ice when she started criticizing her boss.  
(a) She was literally walking on a thin layer of ice while criticizing her boss.  
(b) She was taking a significant risk by criticizing her boss.  
(c) She was not in danger while criticizing her boss.  
(d) She was in a place with very thin air and she started to criticize her boss.  
(e) She was ice skating while criticizing her boss.

**Q77.** I'm really swamped with work this week, but I'm hoping to catch up over the weekend.  
(a) I'm extremely burdened with a workload this week, but I'm hopeful that I'll balance it out over the next week.  
(b) I'm extremely busy with work this week, but I'm hopeful that I'll be able to catch up over the weekend.  
(c) I'm genuinely inundated with work this week, but I'm expecting to match up over the coming weekends.  
(d) I'm not very bogged down with assignments, but I'm looking forward to catching up on them over the weekend.  
(e) I'm considerably overwhelmed with tasks this week, but I'm anticipating recovering over the weekend.

**Q78.** She was as cool as a cucumber when faced with a difficult task.  
(a) She was feeling cold and shivering, like a cucumber, when faced with a difficult task.  
(b) She was literally as cool as a cucumber, with a low body temperature, when faced with a difficult task.  
(c) She remained calm, composed and unflappable when faced with a difficult task.  
(d) She was trying to impress others with her cool demeanor when faced with a difficult task.  
(e) She was pretending to be calm and cool but was actually nervous when faced with a difficult task.

**Q79.** I'm going to bite the bullet and ask my boss for a raise.  
(a) I'm going to fire on my boss with the bullet and ask for a raise.  
(b) I'm going to chomp on the projectile and ask my boss for a raise.  
(c) I'm going to face a difficult situation and ask my boss for a raise.  
(d) I'm going to eat the lead and ask my boss for a raise.  
(e) I'm going to chew on the cartridge and ask my boss for a raise.

**Q80.** It's important to stay on top of things, otherwise, you might be caught off guard.  
(a) It's important to stay informed, otherwise, you might not be prepared for unexpected situations.  
(b) It's important to be at the zenith of things, otherwise, you might be caught unawares.  
(c) It's important to remain on the summit of things, otherwise, you might be surprised.  
(d) It's important to stay at the crest of things, otherwise, you might be taken aback.  
(e) It's important to be at the pinnacle of things, otherwise, you might be startled.



**Q81. P scored 20% more marks than Q in an exam. If both scored four marks more, then the sum of marks scored by P and Q together would have been 20% more than the passing marks of the exam. If passing marks of the exam is 80, then find the marks scored by P?**

- (a) 52
- (b) 48
- (c) 46
- (d) 54
- (e) 50

**Q82. Out of the total population in a city, 25% casted invalid votes and the winning candidate received  $14\frac{2}{7}\%$  more than votes received by the losing candidate. Find the percentage of votes received by winning candidate with respect to the total votes in the city (only two candidates participated in the elections)**

- (a) 40%
- (b) 25%
- (c) 50%
- (d) 75%
- (e) 60%

**Q83. P alone can do a work in 30 days. The time taken by P alone to complete the work is 50% more than the time taken by Q alone to complete the work. If P and Q work alternatively starting with Q, then in how many days the whole work will be completed.**

- (a) 36
- (b) 18
- (c) 12
- (d) 24
- (e) 30

**Q84. The ratio of income of P to that of Q is 2:3 and the ratio of expenditure of P to that of Q is 5:6. If the income of Q is increased by 50% and expenditure is same, then the saving of Q becomes Rs.12000. If saving of P is Rs.3000, then find the income of P.**

- (a) Rs.10500
- (b) Rs.9500
- (c) Rs.7000
- (d) Rs.5000
- (e) Rs.8000

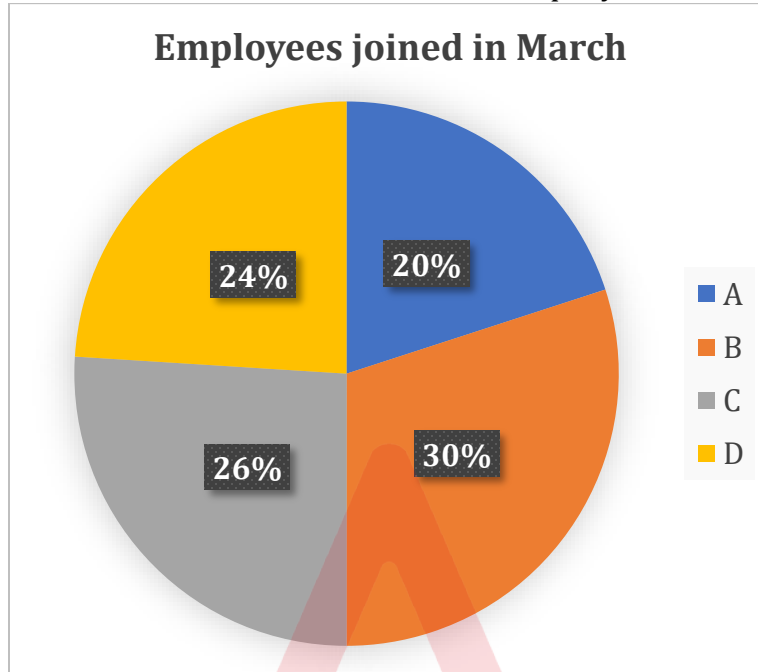
**Q85. In 120 liters mixture of milk and water, quantity of milk is  $58\frac{1}{3}\%$ . If (X+15) liters of the mixture is taken out and 8 litres milk added in the remaining mixture, then the difference between quantity of milk and water in final mixture becomes 20 liters. Find the value of X.**

- (a) 19
- (b) 45
- (c) 22
- (d) 33
- (e) 29

**Directions (86 – 90):** The pie chart given below shows the percentage distribution of total number of employees joined in four (A, B, C & D) different companies in March. The table given below shows the number of employees till February in each of the company and the number of employees left in November in each company.

**Note: (i)** No employees left or join in any company in any month other than the given data.

**(ii)** Number of employees remain at the end of November in company D is 900.



Companies	Number of employees till February	Number of employees left in November
A	200	100
B	350	150
C	300	180
D	400	220

**Q86.** Find the ratio of the total number of employees joined company D in March to the total number of employees in company C in December.

- (a) 5:7
- (b) 4:3
- (c) 4:5
- (d) 5:8
- (e) 8:5

**Q87.** Find the number of employees remain in Company A at the end of November is how much more or less than the number of employees in company B at the end of December.

- (a) 400
- (b) 450
- (c) 200
- (d) 500
- (e) 350

**Q88.** Out of the total employees joined in March in company C, the number of male employees are 60% more than females. Find the number of female employees joined in March in company C is what percentage of the number of employees remain in company D in November.

- (a) 12.5%
- (b) 32.5%
- (c) 66.66%
- (d) 37.5%
- (e) 33.33%

**Q89.** In December, 300 employee joined company D. Find the number of employees in company A in November is what percentage less than that of number of employees in company D in December.

- (a) 45%
- (b) 32.5%
- (c) 66.66%
- (d) 41.66%
- (e) 33.33%

**Q90.** Find the average number of employees in all four companies at the end of November.

- (a) 840
- (b) 900
- (c) 720
- (d) 950
- (e) 1050

**Q91.** Train A running at speed of 's' m/s can overtakes train B which running at speed of 54 km/hr in 16 seconds. The ratio of length of train A to that of train B is 21:19. If Train A crosses 30 meters long platform in 6 seconds, then find the value of 's'.

- (a) 40
- (b) 45
- (c) 20
- (d) 30
- (e) 35

**Q92.** A started a business by investing of Rs.6000. After X months, B joined the business with investment of Rs.7000. At the end of a year, the ratio of profit share of A to that of B was 12:7. Find the value of X.

- (a) 4
- (b) 5
- (c) 2
- (d) 6
- (e) 3

**Q93.** Two years ago, the ratio of age of A to that of B was 2:3. After six years, the ratio of age of A to that of B will be 6:7. If present age of C is six years more than that of B, then find the present age of C (in year).

- (a) 24
- (b) 15
- (c) 12
- (d) 16
- (e) 14

**Q94.** X is 75% more than Y and Z is 60 less than X. If the average of X, Y and Z is 340 and the ratio of Y to Z is 2: a, then find the value of 'a'.

- (a) 9
- (b) 7
- (c) 3
- (d) 5
- (e) 1

**Q95.** The marked price of a pen is Rs.100 and the marked price of a copy is Rs.120. The ratio of selling price of the pen to that of the copy is 5:2. If the discount given on copy is two times of the discount given on the pen, then find the selling price of the copy.

- (a) 40
- (b) 45
- (c) 20
- (d) 30
- (e) 35

**Directions (96-100):** In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I = Quantity II or no relation

**Q96.** The distance between point P and Q is 56 km. A boat travels first 40 km distance downstream in 2.5 hours and rest distance upstream in 2 hours.

**Quantity I:** If the speed of stream is increase by 20%, then find the total distance travelled by the boat downstream in 5 hours.

**Quantity II:** Find the distance travel by the boat upstream in 10.5 hours.

**Q97. Father distributed some money in between his two (A and B) daughters in the ratio of 5:8 respectively. A invests her share in a scheme which offer simple interest at rate of 6% p.a. for 7 years and she gets total amount of Rs.6816 from the scheme.**

**Quantity I:** Find the share B got from her father.

**Quantity II:** Rs.5000

**Q98. Side of a square is 20% more than the breadth of a rectangle and length of the rectangle is 1 m more than side of the square. The perimeter of the rectangle is 6 m less than the perimeter of the square.**

**Quantity I:** Area of rectangle.

**Quantity II:** Area of circle which radius is 10 m less than side of the square.

**Q99. N pipes can fill a tank in (N-2) hours. (N-2) pipes working with three times the efficiency of N pipes, can fill the tank in (N-8) hours.**

**Quantity I:** Value of N.

**Quantity II:** 10

**Q100. For equation  $ax^2 - bx + c = 0$ , product of roots is  $\frac{15}{4}$  and one root of the equation is  $\frac{3}{2}$ .**

**Quantity I:** value of (a + b)

**Quantity II:** value of (a + c)

**Directions (101– 105): Read the following information carefully and answer the questions given below.**

There are three types of mixtures in three (A, B and C) different vessels. The ratio of milk and water in A is 5:2 respectively. The ratio of milk and syrup in B is 2:1. The quantity of water in C is equal to that of A. If 28 liters of the mixture is taken out from A and added into B, then the quantity of milk in B becomes 40 liters.

If 40% of the mixture from C is removed, then the quantity of syrup in C becomes 15 liters. The ratio of initial quantities of mixture in B and C is 6: 13 respectively.

**Q101. Find the ratio of initial quantity of mixture in vessel A to the final quantity of water in vessel C after removing 40% of the mixture.**

(a) 35:6

(b) 45:13

(c) 22:9

(d) 1:39

(e) 17:9

**Q102. Find the sum of the final quantity of mixture in all the three vessels (in litres)?**

(a) 209

(b) 245

(c) 229

(d) 139

(e) 179

**Q103.** The final quantity of water in A is what percentage of the initial quantity of syrup in B?

- (a) 320%
- (b) 325%
- (c) 350%
- (d) 375%
- (e) 360%

**Q104.** What is the ratio between final quantity of water in C to final quantity of syrup in B?

- (a) 35:6
- (b) 45:13
- (c) 22:9
- (d) 12:5
- (e) 17:9

**Q105.** Find the sum of initial quantity of mixture in A and final quantity of mixture in C.

- (a) 219
- (b) 245
- (c) 229
- (d) 139
- (e) 179

**Directions (106–110):** What will come in the place of question (?) mark in following number series:

**Q106.** 18, 62, 93, 113, ?, 128,

- (a) 120
- (b) 122
- (c) 123
- (d) 124
- (e) 125

**Q107.** 100, 325, 69, 358, 34, ?

- (a) 395
- (b) 245
- (c) 365
- (d) 785
- (e) 725

**Q108.** 10, 21, ?, 153, 450, 1341

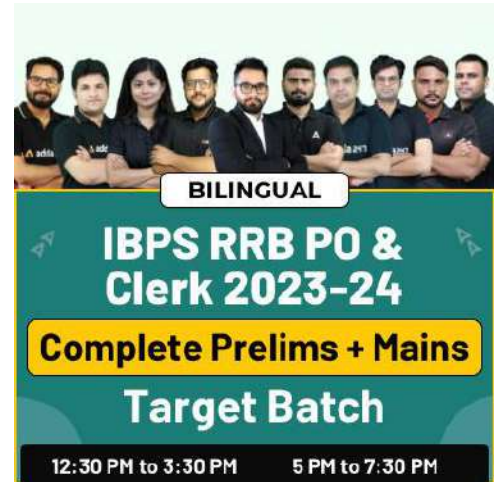
- (a) 33
- (b) 45
- (c) 54
- (d) 36
- (e) 39

Q109. ?, 12, 18, 27, 40.5, 60.75

- (a) 8
- (b) 9
- (c) 4
- (d) 3
- (e) 2

Q110. 2, 6, 21, 110, ?, 8558

- (a) 687
- (b) 577
- (c) 547
- (d) 677
- (e) 777



**Directions (111 – 115):** There are four (A, B, C and D) apartments. The table shows the percentage distribution of number of flats (1 BHK & 2 BHK) in each apartment out of total number of flats in all four apartments and it also shows the percentage by which 2BHK flats are less than the 1 BHK flats in each apartment. Read the data carefully and answer the questions.

**Note:** Average number of flats in all four apartments are 125.

Apartments	Percentage of flats out of total number of flats in all the apartments	Percentage of the number of 2BHK flats are less than the number of 1BHK flats
A	X	75%
B	3X	50%
C	3X - 5	75%
D	4X - 5	60%

Q111. Find the ratio of total number of 2BHK flats in apartment C and D together to total number of 1BHK flats in apartment A.

- (a) 15:7
- (b) 4:3
- (c) 22:9
- (d) 15:8
- (e) 8:15

Q112. In apartment E, the number of 1BHK flats are 30% more than that of in apartment B and the number of 2BHK flats are 20% less than that of in apartment D. Find the total number of flats in apartment E.

- (a) 140
- (b) 145
- (c) 120
- (d) 130
- (e) 170



**Q113. What is the difference between the total number of 1BHK flats in apartment B and total number of 2BHK flats in apartment D?**

- (a) 40
- (b) 45
- (c) 20
- (d) 50
- (e) 35

**Q114. The total number of 2BHK flats in apartment C is what percent of total flats in apartment A and B together.**

- (a) 12.5%
- (b) 32.5%
- (c) 15%
- (d) 37.5%
- (e) 25%

**Q115. 20% of the 2BHK flats in apartment C are in under-construction and 10% of the remaining flats are not booked and rest flats are booked. Find the total number of booked flats (All 1BHK flats are booked in apartment C)**

- (a) 108
- (b) 118
- (c) 112
- (d) 98
- (e) 96

**Directions (116 – 120): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.**

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .

**Q116.** (i)  $12x^2 = 11x - 2$       (ii)  $(3y + 7)^2 = 1$

**Q117.** (i)  $3x^2 - 5x - 2 = 0$       (ii)  $10y^2 + 7y = -1$

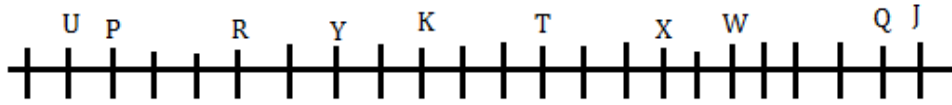
**Q118.** (i)  $x^2 - 16x + 48 = 0$       (ii)  $2y^2 - 13y + 18 = 0$

**Q119.** (i)  $\frac{10}{x^2} - \frac{13}{x} + 4 = 0$       (ii)  $\frac{14}{y^2} + 2 = \frac{11}{y}$

**Q120.** (i)  $5x^2 - 4x - 28 = 0$       (ii)  $8y^2 - 6y - 9 = 0$

# Solutions

## Solutions (1-4)



S1. Ans.(c)

Sol. 23 persons sit in the row.

S2. Ans.(d)

Sol. Only I statement is true.

S3. Ans.(a)

Sol. If B sits exactly between Y and X then 11 persons sit to the left of B.

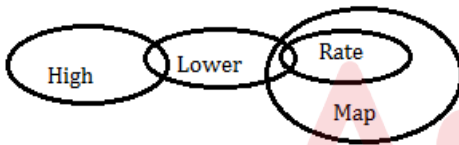
S4. Ans.(e)

Sol. Except J, all sit at the middle of the row.

## Solutions (5-7):

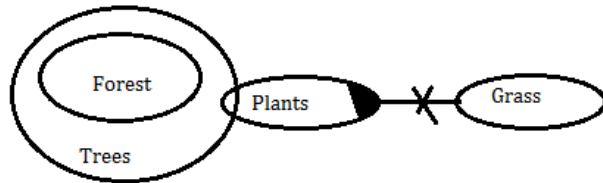
S5. Ans.(d)

Sol.



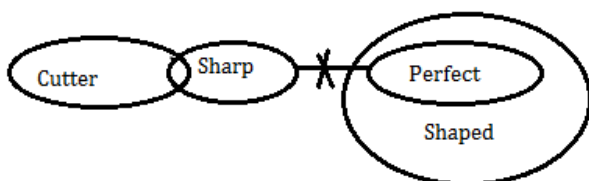
S6. Ans.(b)

Sol.



S7. Ans.(e)

Sol.



**Solutions (8-11):** Final arrangement:

Boxes
V
S
M
L
N
Q
O
R
P
T
U

**S8. Ans.(d)**

**S9. Ans.(e)**

**S10. Ans.(a)**

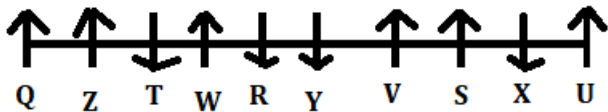
**S11. Ans.(e)**

**S12. Ans.(d)**

**Sol.** Given word- CONTEMPORARY  
After arrangement- YTRRPOONMECA

**Solutions (13-16)**

Final arrangement:



**S13. Ans.(b)**

**S14. Ans.(e)**

**S15. Ans.(b)**

**S16. Ans.(a)**

### Solutions (17-19):

#### S17. Ans.(b)

Sol.  $X > R = S \geq J < K \leq M \leq T < W = Z = F \geq B$

#### S18. Ans.(d)

Sol.  $D < V \leq K > U < R \leq S < W \leq M = B \leq F \geq P$

#### S19. Ans.(c)

Sol.  $U < L = B \geq H > K \geq M \leq C$

### Solutions (20-23)

Final arrangement:

Days	Persons	Colors
Monday	P	Violet
Tuesday	O	Pink
Wednesday	T	Black
Thursday	Q	Purple
Friday	R	Brown
Saturday	S	Grey

#### S20. Ans.(b)

#### S21. Ans.(a)

#### S22. Ans.(c)

#### S23. Ans.(c)

#### S24. Ans.(c)

Sol. I. Sacks, Budget, Corner, Sweet – A, D, R and W - DRAW

II. Papaya, Brown, Number, Multiple – P, A, M and I – No meaningful word

III. Black, Mother, Queen, Course – L, T, U and U – No meaningful word

### Solutions (25-28)

Designation	Persons	Cities
CFO	A	Agra
ED	G	Mathura
GM	B	Udaipur
DGM	E	Pune
Manager	C	Meerut
AM	H	Indore
PO	D	Jaipur
Clerk	F	Haridwar

**S25. Ans.(d)**

**Sol.** The one who is designated as clerk (F) is belongs to Haridwar.

**S26. Ans.(b)**

**Sol.** The one who belongs to Meerut (C) is designated as Manager.

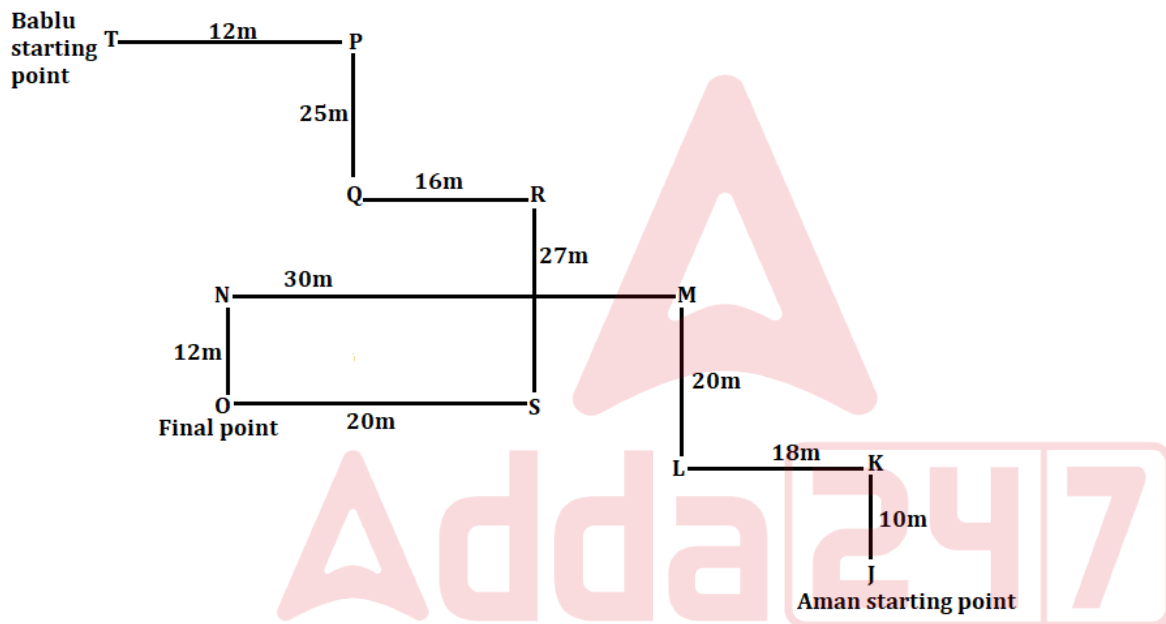
**S27. Ans.(c)**

**Sol.** Four persons are designated between the one who belongs to Agra (A) and the one who is designated as just senior to D (H).

**S28. Ans.(e)**

**Sol.** All statements are true.

### Solutions (29-32)



**S29. Ans.(c)**

**S30. Ans.(a)**

**S31. Ans.(b)**

**S32. Ans.(b)**

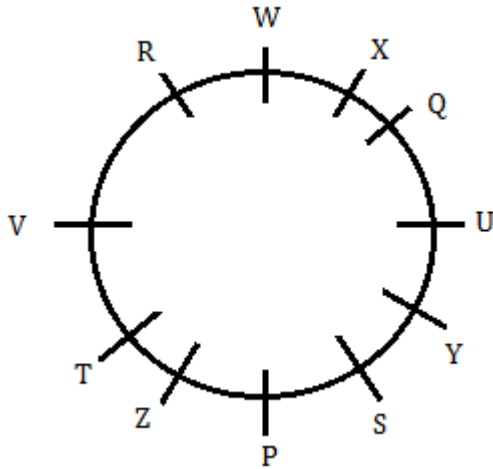
**S33. Ans.(b)**

**Sol.** Given number- 4785396281

After arrangement- 9628147853

Sum-  $8+6+8=22$

**Solutions (34-37)**



**S34. Ans.(c)**

**Sol.** Five persons sit between R and Y when counted from the left of Y.

**S35. Ans.(d)**

**Sol.** Only statement (d) is not true.

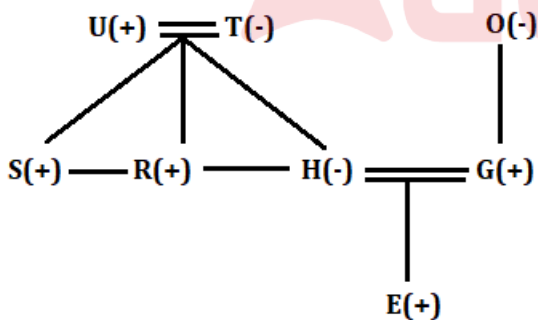
**S36. Ans.(a)**

**Sol.** If Q is related to S, in the similar way W is related to U then P is related to V.

**S37. Ans.(e)**

**Sol.** All the given pair of persons sit adjacent to each other except in option (e).

**Solutions (38-40)**



**S38. Ans.(b)**

**S39. Ans.(c)**

**S40. Ans.(d)**

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**S41. Ans.(a)**

**Sol.** The word that is spelled incorrectly is "audaciuos" which should be spelled as "audacious."

Here are the meanings of the highlighted words:

- A. Audacious - showing a willingness to take bold risks.
- B. Embarked - begin (a course of action)
- C. Perilous - full of danger or risk
- D. Formidable - inspiring fear or respect through being impressively large or powerful.

**S42. Ans.(b)**

**Sol.** The word that is spelled incorrectly is "jagron". The correct spelling of the word is "jargon."

Here are the meanings of the highlighted words:

- A. Convoluted - extremely complex and difficult to follow
- B. Jargon - special words or expressions used by a profession or group that are difficult for others to understand
- C. Contract - a written or spoken agreement that is intended to be enforceable by law
- D. Decipher - convert (a text written in code, or a coded signal) into normal language.

**S43. Ans.(c)**

**Sol.** The word that is spelled incorrectly is "paradigme". The correct spelling of the word is "paradigm."

Here are the meanings of the highlighted words:

- A. Ubiquitous - present, appearing or found everywhere
- B. Catalyzed - cause or accelerate (a reaction) by acting as a catalyst
- C. Paradigm - a typical example or pattern of something; a model
- D. Communicate - share or exchange information, news, or ideas.

**S44. Ans.(d)**

**Sol.** The word that is spelled incorrectly is "disparing," which should be spelled as "disparaging."

Here are the meanings of the highlighted words:

- A. Garrulous - excessively talkative, especially on trivial matters
- B. Bombastic - high-sounding but with little meaning; inflated
- C. Extolling - praise enthusiastically
- D. Disparaging - expressing the opinion that something is of little worth; derogatory

**S45. Ans.(b)**

**Sol.** The word that is spelled incorrectly is "prodigious," which should be spelled as "prodigious."

Here are the meanings of the highlighted words:

- A. Magnanimous - very generous or forgiving, especially toward a rival or someone less powerful than oneself
- B. Prodigious - remarkably or impressively great in extent, size, or degree
- C. Curing - the process of eliminating a disease or condition from the body
- D. Altruistic - showing a selfless concern for the well-being of others; unselfish



**S46. Ans.(a)**

**Sol.** Among the given options, only statement (a) is correct based on the information given in the passage. While the rest of the statements are incoherent with reference to the context of the given question. Refer to the third line of the first paragraph, "Mustard oil is an important agricultural commodity in both Russia and Ukraine, with significant production and export capabilities. However, since the start of the conflict, the trade routes between the two countries have been severely disrupted, making it difficult for farmers and producers to transport their goods across the border."

**S47. Ans.(b)**

**Sol.** Among the given options, only statement (b) is correct, while the rest of the statements are incoherent. Refer to the starting line of the second paragraph, "The war has also exacerbated existing tensions and divisions within both Russia and Ukraine, as well as among their allies and international partners." This means that the conflict has not only created issues between the two countries but also created tension between other nations with different viewpoints on the matter.

**S48. Ans.(b)**

**Sol.** Here, only statement (iii) is correct. Refer to the second line of the third paragraph which states that some consumers have turned to alternative sources of oils with similar properties, such as olive oil, as a result of the shortage. While the rest of the statements are incoherent based on the given information.

**S49. Ans.(a)**

**Sol.** By referring to the information provided in the given passage, we can infer that only statement (a) is correct. According to the passage, option (a) is correct, as consumers have had to pay more for mustard oil due to the surge in prices. Option (b) is incorrect, as the shortage of mustard oil caused by the Russia-Ukraine conflict has increased the demand for alternative oils, such as rapeseed and sunflower oil. Option (c) is incorrect, as the shortage of mustard oil has had an impact on the global economy, particularly on countries that rely heavily on imports from Russia and Ukraine.

**S50. Ans.(d)**

**Sol.** Among the given alternatives, only option (d) is correct with reference to the context of the given question. The war has had a significant impact on the farmers and producers of mustard oil in both Russia and Ukraine, with the disruption of trade routes making it difficult for them to transport their goods and affecting their productivity.

**S51. Ans.(d)**

**Sol.** The idiomatic phrase that best conveys the intended meaning of the word "compromise" in the given passage is (d) Meet halfway. This phrase means to reach a compromise or agreement by both parties making concessions and finding a solution that is acceptable to both. It suggests that both sides should be willing to give up something in order to come to an agreement, which is the essence of compromise.

(a) "Go for broke" means to risk everything in pursuit of a goal, which is not related to compromising.

(b) "All or nothing" means to have or do everything, without compromise or moderation. This phrase is actually the opposite of compromise.

(c) "Stand your ground" means to maintain your position or opinion, without giving in to others. This phrase also does not convey the idea of compromise, which involves both sides giving in to some extent.

(e) "Dig in your heels" means to refuse to change your position or opinion, which is again opposite to the concept of compromise.

**S52. Ans.(a)**

**Sol.** According to the given passage, diplomatic efforts and a commitment to dialogue and compromise can bring an end to the Russia-Ukraine conflict. Refer to the concluding lines of the second paragraph for more clarity.

**S53. Ans.(d)**

**Sol.** The word that is most opposite in meaning to "rely," as highlighted in the given passage, is (d) wariness. "Rely" means to depend on or trust in something or someone, while "wariness" means caution, suspicion, or distrust. If you are wary of something or someone, you are not willing to rely on them, and if you rely on something or someone, you are not wary of them. Therefore, "wariness" is the most opposite in meaning to "rely" among the given options. The other options are not directly opposite to "rely" and do not convey a sense of distrust or caution. "Conviction," "aphorism," "precept," and "credence" are related to belief, opinion, or principle and do not convey the opposite meaning of "rely."

**S54. Ans.(c)**

**Sol.** Part (C) has a grammatical error. The subject of the sentence is "beach," which is singular. Therefore, the verb that follows should also be singular. However, the verb "have" in part (C) is plural, which does not agree with the subject. To make the sentence grammatically correct, we could change "have" to "has" to agree with the singular subject "beach".

**S55. Ans.(b)**

**Sol.** Part (B) of the sentence has a grammatical error. The phrase "the weather had not ideal" is incorrect and we should use the verb "was" to describe the state of the weather. Therefore, we could correct the sentence as: "Despite the fact that the weather was not ideal, the group decided to proceed with the planned hiking trip."

**S56. Ans.(e)**

**Sol.** There is no grammatical error in the given sentence.

**S57. Ans.(c)**

**Sol.** Part (C) of the sentence has a grammatical error. The phrase "decided try" should be corrected to "decided to try," as "to" is needed after the verb "decided" to indicate the infinitive form of the verb "try."

**S58. Ans.(c)**

**Sol.** Part (C) of the sentence has a grammatical error. The phrase "she never imagined she will end" should be corrected to "she never imagined she would end," using the past tense "would" instead of "will" to maintain grammatical consistency with the past tense "had always dreamed" in Part (A).

**S59. Ans.(a)**

**Sol.** Part (A) of the sentence has a grammatical error. The correct phrase should be "Obesity is a complex health issue," using the article "a" before "complex" to indicate that "complex health issue" is a singular countable noun phrase.

**S60. Ans.(c)**

**Sol.** Part (C) of the sentence has a grammatical error. The verb "demand" in Part (C) needs to be changed to "demands" to maintain subject-verb agreement with "healthcare inequality" in Part (A). "Healthcare inequality" is a singular subject and requires a singular verb.

**S61. Ans.(b)**

**Sol.** The words that should fill in the blanks are:

"Despite" the fact that we come from different backgrounds and have different opinions, we can "still" work together towards a common goal.

This sentence means that even though there are differences in backgrounds and opinions, it is still possible to work towards a common goal. "Despite" means "in spite of" or "regardless of". "Still" means "nevertheless" or "even so".

(a) "Because of" implies that differences in backgrounds and opinions could make it easier to work together, which is not necessarily the case in this sentence.

(c) "Due to" and "unless" don't fit the sentence grammatically or semantically.

(d) "However" could work instead of "Despite", but "even" doesn't fit the second blank as well as "still" does.

(e) "Since" implies a reason or cause for working together, which isn't the focus of the sentence. "Anyhow" means "anyway" or "in any case", but it doesn't fit the sentence here.

**S62. Ans.(c)**

**Sol.** The sentence should be filled with option (c) "By, throughout." This is because the first part of the sentence talks about how taking a few minutes to plan one's day and set goals can increase productivity, which means that the second blank should show the result of this action. "Throughout" is the appropriate word as it means during the entire time or from beginning to end, indicating that the planning helped the person stay productive and focused throughout the day.

**S63. Ans.(d)**

**Sol.** The sentence should be filled with option (d) "With, anything." This is because the first part of the sentence talks about having the right attitude, which means that the second blank should show the potential outcome of having a positive attitude. "Anything" is the appropriate word as it means any possible thing or everything, indicating that with the right attitude and a little bit of luck, anything is possible in life.

**S64. Ans.(b)**

**Sol.** The most appropriate words to fill in the given blanks are: (b) During, with. This choice makes the most sense because it indicates that during the summer, the person likes to go swimming in the lake and spend time during that period with their family. "During" indicates a specific time frame, while "with" indicates who they will be spending time with.

**S65. Ans.(d)**

**Sol.** The correct option to fill in the blanks is (d) Before, by. The sentence "Before going to the party, I stopped by the store to pick up some snacks and drinks" implies that the speaker made a stop at the store to buy some snacks and drinks prior to going to the party. The word "before" indicates the sequence of events, where the action of stopping at the store came before the action of going to the party.

The preposition "by" in this context means "at" or "near," indicating the location of the store in relation to the speaker's path. So, "I stopped by the store" means "I made a quick stop at the store while on my way to the party."

**S66. Ans.(b)**

**Sol.** The most appropriate option is: (b) to, on. Thus, the sentence becomes: "In addition to studying for my exam, I need to work on my research paper." Here, "to" and "on" are the best fillers in the sentence because they provide the necessary information about the actions that need to be taken and the specific task that needs to be worked on.

**S67. Ans.(d)**

**Sol.** The most appropriate answer is: (d) any, into. Thus, the sentence becomes: "Without any hesitation, she jumped into the pool and swam to the other side." The word "any" is used to indicate that there was no hesitation at all. And the word "into" is used to indicate the direction of the jump - from outside the pool to inside the pool.

**S68. Ans.(a)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S69. Ans.(c)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S70. Ans.(d)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S71. Ans.(e)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S72. Ans.(b)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S73. Ans.(a)**

**Sol.** Among the given alternatives, sentence (D) best defines the theme of the paragraph and thus it is the introductory sentence of the paragraph. Now, sentence (D) is followed by sentence (F) which states further that inflation has a significant impact on the overall economic conditions of a country. Now, sentence (F) is followed by sentence (A) which explains how inflation impacts economic conditions. Now, sentence (A) is followed by sentence (C) which states the consequences of inflation. Now, sentence (C) is followed by sentence (E) which explains how businesses respond to the consequences of inflation. Finally, sentence (B) concludes the paragraph by stating that if inflation continues to rise, it can lead to hyperinflation. Thus, the correct rearrangement of the given sentences would be DFACEB.

**S74. Ans.(b)**

**Sol.** The sentence "He's got a chip on his shoulder because he didn't get the promotion" means that the person is feeling resentful or angry because he believes he deserved the promotion but was passed over for it. Option (b) is the correct explanation of the sentence as it accurately captures the intended meaning.

**S75. Ans.(e)**

**Sol.** The sentence "She's always looking for a silver lining, even in the toughest of situations" means that the person is optimistic and tries to find something positive even in difficult situations. Option (e) is the correct explanation of the sentence as it accurately captures the intended meaning.

**S76. Ans.(b)**

**Sol.** The sentence "She was walking on thin ice when she started criticizing her boss" means that the person was taking a significant risk by criticizing her boss and may face negative consequences. Option (b) is the correct explanation of the sentence as it accurately captures the intended meaning.

**S77. Ans.(b)**

**Sol.** The correct option is (b) "I'm extremely busy with work this week, but I'm hopeful that I'll be able to catch up over the weekend." This means that the speaker has a lot of work to do this week and is feeling overwhelmed, but he is optimistic that he will be able to complete everything over the weekend.

**S78. Ans.(c)**

**Sol.** The phrase "cool as a cucumber" is commonly used to describe someone who remains calm and composed in a difficult or stressful situation. Only option (c) accurately captures the intended meaning of the sentence, which is that the person remained composed when faced with a challenging task.

**S79. Ans.(c)**

**Sol.** Option (c) is the correct explanation: "I'm going to face a difficult situation and ask my boss for a raise." The phrase "bite the bullet" is an idiom that means to face a difficult or unpleasant situation with courage and determination. In this context, the speaker is using this idiom to say that they are going to face the potentially uncomfortable situation of asking their boss for a raise. Other options are incorrect as they offer literal interpretations of the phrase "bite the bullet" that have nothing to do with the intended meaning in this context.

**S80. Ans.(a)**

**Sol.** Option (a) is the correct interpretation. "Staying on top of things" means to stay informed and aware of everything that's happening, so that you can be prepared for unexpected situations. The other options use figurative language to describe being on top of things, but they don't convey the same meaning as the original sentence.

**S81. Ans.(b)**

**Sol.** Let marks scored by Q be  $5x$

And marks scored by P =  $5x \times \frac{120}{100} = 6x$

ATQ,

$$(5x + 4) + (6x + 4) = 80 \times \frac{120}{100}$$

$$11x + 8 = 96$$

$$11x = 88$$

$$x = 8$$

$$\text{Marks scored by P} = 8 \times 6 = 48$$

**S82. Ans.(a)**

**Sol.** Let total votes in the city be  $100x$

Valid votes =  $75x$

Winning candidate got votes =  $75x \times \frac{8}{15} = 40x$

Required percentage =  $\frac{40x}{100x} \times 100 = 40\%$



**S83. Ans.(d)**

**Sol.** Time taken by Q to complete the work =  $30 \times \frac{100}{150} = 20$  days

Total work (L.C.M. of 30 & 20) = 60 units

Efficiency of P & Q is 2 units/day and 3 units/ day respectively.

ATQ.

5 units work completed in 2 days

So, 60 units work completes in 24 days

**S84. Ans.(e)**

**Sol.** Let income of P and Q is  $2x$  &  $3x$  respectively

And expenditure of P and Q is  $5y$  &  $6y$  respectively

Income of Q is increased by 50%

New income of Q =  $3x \times \frac{150}{100} = 4.5x$

ATQ.

$4.5x - 6y = 12000 \dots (i)$

$2x - 5y = 3000 \dots (ii)$

From (i) & (ii)

$x = 4000, y = 1000$

Income of P =  $2x = 2 \times 4000 = \text{Rs. } 8000$

**S85. Ans.(d)**

**Sol.** Quantity of milk =  $120 \times \frac{7}{12} = 70$  litres

Quantity of Water =  $120 - 70 = 50$  litres

ATQ.

$70 - (X + 15) \times \frac{7}{12} + 8 - \left(50 - (X + 15) \times \frac{5}{12}\right) = 20$

$28 - (X + 15) \times \frac{1}{6} = 20$

$8 = (X + 15) \times \frac{1}{6}$

$48 - 15 = X$

$X = 33$

**Sol (86 - 90):** In company D, total number of employees in March = X

$X + 400 - 220 = 900$

$X = 720$

Total number of employees joined in March in all the companies =  $720 \times \frac{100}{24} = 3000$

Companies	Number of employees joined in March	Number of employees remained at the end of November
A	600	700
B	900	1100
C	780	900
D	720	900

**S86. Ans.(c)**

**Sol.** Required ratio =  $720:900 = 4:5$

**S87. Ans.(a)**

**Sol.** Required difference =  $1100 - 700 = 400$

**S88. Ans.(e)**

**Sol.** Number of females joined in March =  $\frac{5}{8+5} \times 780 = 300$

Required percentage =  $\frac{300}{900} \times 100 = 33.33\%$

**S89. Ans.(d)**

**Sol.** In December, total number of employees in D =  $300+900 = 1200$

Required % =  $\frac{1200-700}{1200} \times 100 = 41.66\%$

**S90. Ans.(b)**

**Sol.** Required average =  $\frac{700+1100+900+900}{4} = 900$

**S91. Ans.(a)**

**Sol.** Speed of train B =  $54 \times \frac{5}{18} = 15 \text{ m/s}$

Let the length of train A and train B be  $21L$  and  $19L$  respectively.

$$S - 15 = \frac{(21+19)L}{16} \dots(i)$$

$$S = \frac{30+21L}{6} \dots(ii)$$

Solving (i) and (ii)

$$S = 40 \text{ m/s}$$

**S92. Ans.(d)**

**Sol.** ATQ,  $\frac{6000 \times 12}{7000 \times (12-X)} = \frac{12}{7}$

$$6 = 12 - X$$

$$X = 6 \text{ Months}$$

**S93. Ans.(e)**

**Sol.** Let the present age of A and B be  $2x+2$  and  $3x+2$  respectively.

$$\frac{2x+2+6}{3x+2+6} = \frac{6}{7}$$

$$x = 2$$

Present age of C =  $3x+2+6 = 6+2+6 = 14$  years

**S94. Ans.(c)**

**Sol.** Let Y be  $100m$ .

So, X =  $175m$

$$\frac{175m+100m+175m-60}{3} = 340$$

$$450m - 60 = 1020$$

$$450m = 1080$$

$$m = 2.4$$

$$Y : Z = 100m : 175m - 60 = 240 : 360 = 2 : 3$$



**S95. Ans.(c)**

**Sol.** ATQ,

$$\frac{100-D}{120-2D} = \frac{5}{2}$$

$$D = 50$$

Selling price of copy =  $120 - 100 = \text{Rs. } 20$

**S96. Ans.(e)**

**Sol.** Let the speed of stream and speed of boat in still water is  $y$  km/hr and  $x$  km/hr respectively.

ATQ,

$$\frac{40}{2.5} = x + y \dots(i)$$

$$\frac{56-40}{2} = x - y \dots(ii)$$

$$x = 12 \text{ km/hr}, y = 4 \text{ km/hr}$$

**Quantity I.**

$$\text{Distance} = 5 \times \left( 4 \times \frac{120}{100} + 12 \right) = 84 \text{ km}$$

**Quantity II.**

$$\text{Distance} = 10.5 \times (12 - 4) = 84 \text{ km}$$

**Quantity I = Quantity II**

**S97. Ans.(a)**

**Sol.** Let the share given to A and B be  $5x$  and  $8x$  respectively.

$$6816 = \frac{5x \times 7 \times 6}{100} + 5x$$

$$x = 960$$

**Quantity I.**

$$\text{B gets } 8x = \text{Rs. } 7680$$

**Quantity I > Quantity II**

**S98. Ans.(b)**

**Sol.** Let the breadth of the rectangle be  $100x$ .

$$\text{So, side of the square} = 120x$$

$$\text{Length of the rectangle} = 120x + 1$$

ATQ,

$$2 \times (120x + 1 + 100x) = 120x \times 4 - 6$$

$$x = \frac{1}{5}$$

**Quantity I**

$$\text{Area of rectangle} = (25 \times 20) = 500 \text{ m}^2$$

**Quantity II**

$$\text{Radius of circle} = 24 - 10 = 14 \text{ meters}$$

$$\text{Area of circle} = \frac{22}{7} \times 14 \times 14 = 616 \text{ m}^2$$

**Quantity I < Quantity II**

**S99. Ans.(a)****Sol.** Let the efficiency of N pipes are x.

$$N(N - 2) \times x = (N - 2)(N - 8) \times 3x$$

$$N^2 - 2N = 3N^2 - 24N - 6N + 48$$

$$N^2 - 14N + 24 = 0$$

$$N = 12, 2$$

So, N= 12

If N = 2, then times become zero

Hence, we can't take 2 as N

**Quantity I:** N=12**Quantity II < Quantity I****S100. Ans.(a)****Sol.** ATQ, Product of roots =  $\frac{c}{a} = \frac{15}{4}$ 

$$4x^2 - bx + 15 = 0$$

$$4 \times \left(\frac{3}{2}\right)^2 - b \left(\frac{3}{2}\right) + 15 = 0$$

$$18 - 3b + 30 = 0$$

$$b = 16$$

**Quantity I:**

$$\text{Value of } (a + b) = 4 + 16 = 20$$

**Quantity II:**

$$\text{Value of } (a + c) = 4 + 15 = 19$$

**Quantity I > Quantity II****Solutions (101 - 105):** Let the quantity of milk and water in A be 5x and 2x respectively.

The quantity milk and syrup in B is 2y and y respectively.

Quantity of water in C is 2x.

ATQ,

$$2y + 28 \times \frac{5}{7} = 40$$

$$y = 10$$

$$\frac{60}{100} \times \text{initial quantity of syrup} = 15l$$

$$\text{initial quantity of syrup in C} = 25l$$

$$\text{Total quantity in vessel C} = \frac{2y+y}{6} \times 13 = 65l$$

$$\text{Quantity of water in C} = 65 - 25 = 40$$

$$2x = 40$$

$$20 = x$$

**Initially**

Vessels	Milk	Water	Syrup
A	100	40	
B	20		10
C		40	25

TEST SERIES

BILINGUAL

VIDEO SOLUTIONS



IBPS 2023

RRB PO

PRELIMS + MAINS

210+ TOTAL TESTS

**Final**

Vessels	Milk	Water	Syrup
A	80	32	
B	40	8	10
C		24	15

**S101. Ans.(a)****Sol.** Required ratio =  $140 : 24 = 35:6$ **S102. Ans.(a)****Sol.** Required Sum =  $80+32+40+8+10+24+15 = 209$  litres**S103. Ans.(a)****Sol.** Required percentage =  $\frac{32}{10} \times 100 = 320\%$ **S104. Ans.(d)****Sol.** Required ratio =  $24:10=12:5$ **S105. Ans.(e)****Sol.** Required sum =  $100+40+24+15=179$ **S106. Ans.(d)****Sol.** Pattern of the series -

18            62            93            113             $\overset{?}{=}124$             128

+44            +31            +20            +11            +4

-13            -11            -9            -7

**S107. Ans.(a)****Sol.** Pattern of the series -

100            325            69            358            34            395

+225            -256            +289            -324            +361

↑            ↑            ↑            ↑            ↑

$15^2$              $16^2$              $17^2$              $18^2$              $19^2$

**S108. Ans.(c)****Sol.** Pattern of the series -

$$10 \times 3 - 9 = 21$$

$$21 \times 3 - 9 = 54$$

$$54 \times 3 - 9 = 153$$

$$153 \times 3 - 9 = 450$$

$$450 \times 3 - 9 = 1341$$

**S109. Ans.(a)****Sol.** Pattern of the series -

$$8 \times \frac{3}{2} = 12$$

$$12 \times \frac{3}{2} = 18$$

$$18 \times \frac{3}{2} = 27$$

$$27 \times \frac{3}{2} = 40.5$$

$$40.5 \times \frac{3}{2} = 60.75$$

**S110. Ans.(e)****Sol.** Pattern of the series -

$$2 \times 2 + 2 = 6$$

$$6 \times 3 + 3 = 21$$

$$21 \times 5 + 5 = 110$$

$$110 \times 7 + 7 = 777$$

$$777 \times 11 + 11 = 8558$$

**Solutions (111 - 115):** Total number of flats in all the apartments =  $125 \times 4 = 500$ 

$$X + 3X + 3X - 5 + 4X - 5 = 100$$

$$11X = 110$$

$$X = 10$$

For apartment A,

$$\text{Total number of flats in apartment A} = 10\% \text{ of } 500 = 50$$

$$\text{Ratio of total 2BHK flats to 1 BHK flats} = \frac{25}{100} : 1 = 1 : 4$$

$$\text{2BHK flats in apartment A} = \frac{1}{5} \times 50 = 10$$

$$\text{1BHK flats in apartment A} = \frac{4}{5} \times 50 = 40$$

Similarly,

Apartments	Total number of flats	Total number of 1BHK flats	Total number of 2BHK flats
A	50	40	10
B	150	100	50
C	125	100	25
D	175	125	50

**S111. Ans.(d)**

**Sol.** Required ratio =  $(25+50) : 40 = 15:8$

**S112. Ans.(e)**

**Sol.** 1BHK flats in apartment E =  $\frac{130}{100} \times 100 = 130$

2 BHK flats in apartment E =  $\frac{80}{100} \times 50 = 40$

Total flats in E =  $130 + 40 = 170$

**S113. Ans.(d)**

**Sol.** Required difference =  $100 - 50 = 50$

**S114. Ans.(a)**

**Sol.** Required percentage =  $\frac{25}{150+50} \times 100 = 12.5\%$

**S115. Ans.(b)**

**Sol.** Total 2BHK flats = 25

2BHK flats that are in under-construction =  $\frac{20}{100} \times 25 = 5$

2BHK flats that are not booked =  $\frac{10}{100} \times (25 - 5) = 2$

Flats that are booked in apartment C =  $100 + 18 = 118$

**S116. Ans.(a)**

**Sol.** (i).  $12x^2 - 11x + 2 = 0$

$$12x^2 - 8x - 3x + 2 = 0$$

$$4x(3x - 2) - 1(3x - 2) = 0$$

$$x = \frac{2}{3}, \frac{1}{4}$$

(ii).  $(3y + 7)^2 = 1$

$$(3y + 7) = \pm 1$$

$$\Rightarrow y = -2, -\frac{8}{3}$$

So,  $x > y$

**S117. Ans.(e)**

**Sol.** (i).  $3x^2 - 5x - 2 = 0$

$$3x^2 - 6x + x - 2 = 0$$

$$3x(x - 2) + 1(x - 2) = 0$$

$$(x - 2)(3x + 1) = 0$$

$$x = 2, -\frac{1}{3}$$

(ii)  $10y^2 + 7y + 1 = 0$

$$10y^2 + 5y + 2y + 1 = 0$$

$$5y(2y + 1) + 1(2y + 1) = 0$$

$$y = -\frac{1}{2}, -\frac{1}{5}$$

No relation

**S118. Ans.(e)**

**Sol.** (i).  $x^2 - 16x + 48 = 0$

$$x^2 - 12x - 4x + 48 = 0$$

$$x(x - 12) - 4(x - 12) = 0$$

$$(x - 12)(x - 4) = 0$$

$\therefore x = 12, 4$

$$\begin{aligned} \text{(ii). } & 2y^2 - 13y + 18 = 0 \\ & 2y^2 - 4y - 9y + 18 = 0 \\ & 2y(y - 2) - 9(y - 2) = 0 \\ & (2y - 9)(y - 2) = 0 \\ \therefore y &= \frac{9}{2}, 2 \end{aligned}$$

No relation

**S119. Ans.(d)**

$$\begin{aligned} \text{Sol. (i). } & \frac{10}{x^2} - \frac{13}{x} + 4 = 0 \\ \Rightarrow & 4x^2 - 13x + 10 = 0 \\ \Rightarrow & 4x^2 - 8x - 5x + 10 = 0 \\ & 4x(x - 2) - 5(x - 2) = 0 \\ & (4x - 5)(x - 2) = 0 \end{aligned}$$

$$x = \frac{5}{4}, 2$$

$$\begin{aligned} \text{(ii). } & \frac{14}{y^2} + 2 = \frac{11}{y} \\ \Rightarrow & 2y^2 - 11y + 14 = 0 \\ \Rightarrow & 2y^2 - 7y - 4y + 14 = 0 \\ \Rightarrow & y(2y - 7) - 2(2y - 7) = 0 \\ y &= 2, \frac{7}{2} \\ y &\geq x \end{aligned}$$

**S120. Ans.(e)**

$$\begin{aligned} \text{Sol. (i). } & 5x^2 - 4x - 28 = 0 \\ & 5x^2 + 10x - 14x - 28 = 0 \\ x &= \frac{14}{5}, -2 \end{aligned}$$

$$\begin{aligned} \text{(ii). } & 8y^2 - 6y - 9 = 0 \\ & 8y^2 + 12y - 6y - 9 = 0 \\ y &= \frac{3}{2}, -\frac{3}{4} \end{aligned}$$

So, no relation



## IBPS RRB PO Prelims Previous Year Questions 2022

**Directions (1-5):** Study the following information carefully and answer the questions given below:  
निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Eight persons sit around a square table and four of them face inside while four of them face outside. Four persons sit at the corner and rest four sit at the edges of the table. O and N face each other. P sits 2<sup>nd</sup> to the right of N. L sits just left Q who sits at corner of table. Q faces outside. M and Q are immediate neighbours and face opposite direction to each other. P face opposite direction as R and S face. S does not sit just left of P.

आठ व्यक्ति एक वर्गाकार मेज के चारों ओर बैठे हैं और उनमें से चार अंदर की ओर उन्मुख है जबकि उनमें से चार बाहर की ओर उन्मुख है। चार व्यक्ति मेज के कोने पर और शेष चार मेज की भुजा पर बैठे हैं।

O और N एक दूसरे की ओर उन्मुख हैं। P, N के दायें से दूसरे स्थान पर बैठा है। L, Q के ठीक बायें बैठा है, Q जो मेज के कोने पर बैठा है। Q बाहर की ओर उन्मुख है। M और Q निकटतम पड़ोसी हैं और एक दूसरे के विपरीत दिशा की ओर उन्मुख हैं। P, R और S की विपरीत दिशा की ओर उन्मुख है। S, P के ठीक बायें नहीं बैठा है।

**Q1.** Who sits 4<sup>th</sup> left of L?

L के बायें से चौथे स्थान पर कौन बैठा है?

- (a) P
- (b) S
- (c) O
- (d) M
- (e) None of these / इनमें से कोई नहीं

**Q2.** Who among the following persons face outside?

निम्नलिखित में से कौन-सा व्यक्ति बाहर की ओर उन्मुख है?

- (a) M, O
- (b) N, L
- (c) R, L
- (d) O, P
- (e) None of these / इनमें से कोई नहीं

**Q3.** Who among the following are immediate neighbour of R?

निम्नलिखित में से कौन R का निकटतम पड़ोसी है?

- (a) P
- (b) M
- (c) S
- (d) Q
- (e) O

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**Q4.** Which of the following statement is true?

निम्नलिखित में से कौन सा कथन सत्य है?

**I.** P and Q sit diagonally opposite to each other

P और Q एक दूसरे के विकर्णतः विपरीत बैठे हैं।

**II.** S does not face outside

S बाहर की ओर उन्मुख नहीं है।

**III.** N and R are immediate neighbours

N और R निकटतम पड़ोसी हैं।

(a) Both I and II are true / I और II दोनों सत्य हैं।

(b) Only III is true / केवल III सत्य है।

(c) Both II and III are true / II और III दोनों सत्य हैं।

(d) Both I and III are true / I और III दोनों सत्य हैं।

(e) None is true / कोई भी सत्य नहीं है।

**Q5.** What is the position of S with respect to M?

M के सन्दर्भ में S का स्थान क्या है?

(a) 2<sup>nd</sup> to the right / दाएं से दूसरा

(b) Immediate left / ठीक बाएं

(c) 2<sup>nd</sup> to the left / बाएं से दूसरा

(d) 3<sup>rd</sup> to the right / दाएं से तीसरा

(e) None of these / इनमें से कोई नहीं

**Directions (6-9):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

R has 2 children of different gender. A is the brother-in-law of T who is unmarried. D is the cousin of M who is granddaughter of R. B is the aunt of L who is the only daughter of K. Q is the mother of B. A is the spouse of K. T is the aunt of L and have only one sibling. C is the son in law of R.

R के अलग-अलग जेंडर की 2 संतान हैं। A, T का ब्रदर-इन-लॉ है, T जो अविवाहित है। D, M का कजिन है, M जो R की ग्रैंड डॉटर है। B, L की आंटी है, L जो K की इकलौती बेटी है। Q, B की माँ है। A, K का जीवनसाथी है। T, L की आंटी है, और उसका केवल एक सहोदर है। C, R का सन-इन-लॉ है।

**Q6.** Who is the grandson of Q?

Q का ग्रैंडसन कौन है?

(a) M

(b) T

(c) L

(d) D

(e) None of these / इनमें से कोई नहीं



**Q7.** How many females are in the family?

परिवार में कितनी महिलाएं हैं?

- (a) Four / चार
- (b) More than five / पांच से अधिक
- (c) Five / पांच
- (d) Three / तीन
- (e) None of these / इनमें से कोई नहीं

**Q8.** Who is the brother-in-law of A?

A का ब्रदर-इन-लॉ कौन है?

- (a) D
- (b) L
- (c) M
- (d) C
- (e) None of these / इनमें से कोई नहीं

**Q9.** Who is the mother-in-law of K?

K की मदर-इन-लॉ कौन है?

- (a) Q
- (b) B
- (c) M
- (d) T
- (e) None of these / इनमें से कोई नहीं

**Q10.** How many pairs of letters are there in the word 'REFRIGERATOR', each of which have as many letters between them in the word as they have in English alphabetical series (both forward and backward direction)?

शब्द 'REFRIGERATOR' में अक्षरों के ऐसे कितने युग्म हैं, जिनमें से प्रत्येक के बीच उतने ही अक्षर हैं जितने कि अंग्रेजी वर्णमाला श्रृंखला (आगे और पीछे दोनों दिशाओं) में हैं?

- (a) One / एक
- (b) Three / तीन
- (c) None / कोई नहीं
- (d) Two / दो
- (e) More than four / चार से अधिक

**Directions (11-15):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

A certain number of persons sit in a linear row facing north. R sits 4<sup>th</sup> from one of the extreme ends. S sits 3<sup>rd</sup> to the left of R. One person sits between D and S. D sits 3<sup>rd</sup> to the left of T. Two persons sit between T and U who sits just left of B. More than one person sits between R and B. X sits 2<sup>nd</sup> to the left of L and is an immediate neighbour of B.

व्यक्तियों की एक निश्चित संख्या उत्तर की ओर उन्मुख होकर एक रेखिक पंक्ति में बैठी है। R किसी एक अंतिम छोर से चौथे स्थान पर बैठा है। S, R के बायें से तीसरे स्थान पर बैठा है। D और S के मध्य एक व्यक्ति बैठा है। D, T के बायें से तीसरे स्थान पर बैठा है। T और U के मध्य दो व्यक्ति बैठे हैं, U जो B के ठीक बायें बैठा है। R और B के मध्य एक से अधिक व्यक्ति बैठे हैं। X, L के बायें से दूसरे स्थान पर बैठा है और वह B का निकटतम पड़ोसी है।

**Q11.** What is the possible minimum number of persons sit in the row?

पंक्ति में बैठे व्यक्तियों की संभावित न्यूनतम संख्या कितनी हो सकती है?

- (a) 17
- (b) 18
- (c) 14
- (d) 13
- (e) 12

**Q12.** How many persons sit between R and X?

R और X के मध्य कितने व्यक्ति बैठे हैं?

- (a) Six / छह
- (b) Four / चार
- (c) More than seven / सात से अधिक
- (d) Three / तीन
- (e) One / एक

**Q13.** What is the position of D with respect to B?

B के सन्दर्भ में D का स्थान क्या है?

- (a) 7<sup>th</sup> to the right / दाएं से सातवां
- (b) 2<sup>nd</sup> to the right / दाएं से दूसरा
- (c) Immediate left / ठीक बाएं
- (d) 3<sup>rd</sup> to the left / बाएं से तीसरा
- (e) None of these / इनमें से कोई नहीं

**Q14.** The number of persons sit between S and T is same as the number of persons sit to the right of \_\_\_\_ (in case of minimum number of persons).

S और T के मध्य बैठे व्यक्तियों की संख्या उतनी ही है, जितनी \_\_\_\_\_ के दाईं ओर बैठे व्यक्तियों की संख्या है। (व्यक्तियों की न्यूनतम संख्या के मामले में)।

- (a) X
- (b) B
- (c) U
- (d) R
- (e) L

**Q15.** Who among the following sits near to D?

निम्नलिखित में से कौन D के निकट बैठा है?

- (a) U
- (b) B
- (c) R
- (d) X
- (e) S

**Directions (16-20):** In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

नीचे दिए गए प्रत्येक प्रश्न में कुछ कथन और उसके बाद कुछ निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों को पढ़ें और फिर तय कीजिए कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की परवाह किए बिना दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

**Q16. Statements:**

Some Rocks are Marble.

No Marble is Concrete.

**कथन:**

कुछ रॉक, मार्बल हैं।

कोई मार्बल, कंक्रीट नहीं है।

**Conclusions: / निष्कर्ष:**

**I.** Some Rock are concrete. / कुछ रॉक, कंक्रीट हैं।

**II.** No Rock is concrete. / कोई रॉक, कंक्रीट नहीं है।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q17. Statements:**

Some City are not Town.

All Town are Metro.

**कथन:**

कुछ सिटी, टाउन नहीं हैं।

सभी टाउन, मेट्रो हैं।

**Conclusions: / निष्कर्ष:**

**I.** Some City are Metro. / कुछ सिटी, मेट्रो हैं।

**II.** All City being Metro is a possibility. / सभी सिटी के मेट्रो होने की संभावना है।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q18. Statements:**

Only a few Fish are Turtle.

All Turtle are Rabbit.

**कथन:**

केवल कुछ फिश, टर्टल हैं।

सभी टर्टल, रैबिट हैं।

**Conclusions: निष्कर्ष:**

**I.** Some Fish are not turtle. / कुछ फिश, टर्टल नहीं हैं।

**II.** No Turtle is Fish. / कोई टर्टल, फिश नहीं है।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q19. Statements:**

Some clouds are water.

Some waters are Star.

**कथन:**

कुछ क्लाउड, वाटर हैं।

कुछ वाटर, स्टार हैं।

**Conclusions: / निष्कर्ष:**

**I.** Some cloud can never be star. / कुछ क्लाउड, कभी स्टार नहीं हो सकते।

**II.** All Cloud being water is a possibility. सभी क्लाउड, के वाटर होने की संभावना है।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

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**Q20. Statements:**

Some earbuds are phone.

All phone are charger.

कथन: कुछ ईयरबड, फोन हैं।

सभी फोन, चार्जर हैं।

**Conclusions: / निष्कर्ष:**

I. All earbuds can be charger. / सभी ईयरबड्स, चार्जर हो सकते हैं।

II. Some Phone are not charger. / कुछ फोन, चार्जर नहीं हैं।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q21.** If in the given number "3852364718" 1 is added to the odd digits and 1 is subtracted from the even digits then what will be the sum of the digits which are 3<sup>rd</sup> from the right end and 5<sup>th</sup> from the left end in the number thus formed after rearrangement?

यदि दी गई संख्या "3852364718" के विषम अंकों में 1 जोड़ा जाता है और सम अंकों में से 1 घटाया जाता है, तो पुनर्व्यवस्था के बाद निर्मित संख्या में दायें छोर से तीसरे और बाएँ छोर से पांचवें अंक का योग कितना होगा?

(a) 15

(b) 13

(c) 16

(d) 12

(e) 11

**Directions (22-25):** In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer.

इन प्रश्नों में, कथनों में विभिन्न तत्वों के बीच संबंध को दर्शाया गया है। कथनों के बाद दो निष्कर्ष दिए गए हैं। उत्तर दीजिए।

**Q22.**

**Statements/ कथन:**

$A = B < P \leq Q \geq T > V = F < E$

**Conclusion / निष्कर्ष**

I:  $V < B$

II:  $F \geq A$

- (a) If only conclusion I is true.  
यदि केवल निष्कर्ष I सत्य है।
- (b) If only conclusion II is true.  
यदि केवल निष्कर्ष II सत्य है।
- (c) If either conclusion I or II is true.  
यदि या तो निष्कर्ष I या II सत्य है।
- (d) If neither conclusion I nor II is true.  
यदि न तो निष्कर्ष I और न ही II सत्य है।
- (e) If both conclusions I and II are true.  
यदि निष्कर्ष I और II दोनों सत्य हैं।

**Q23.**

**Statements / कथन:**

$$X \geq J < L \leq B = K; M \leq Z < L = R$$

**Conclusion / निष्कर्ष**

**I:  $J < Z$**

**II:  $R < K$**

- (a) If only conclusion I is true.  
यदि केवल निष्कर्ष I सत्य है।
- (b) If only conclusion II is true.  
यदि केवल निष्कर्ष II सत्य है।
- (c) If either conclusion I or II is true.  
यदि या तो निष्कर्ष I या II सत्य है।
- (d) If neither conclusion I nor II is true.  
यदि न तो निष्कर्ष I और न ही II सत्य है।
- (e) If both conclusions I and II are true.  
यदि निष्कर्ष I और II दोनों सत्य हैं।

**Q24.**

**Statements / कथन:**

$$S > T \geq V < O = D \leq A < P$$

**Conclusion / निष्कर्ष**

**I:  $A \geq V$**

**II:  $O \leq P$**

- (a) If only conclusion I is true.  
यदि केवल निष्कर्ष I सत्य है।
- (b) If only conclusion II is true.  
यदि केवल निष्कर्ष II सत्य है।
- (c) If either conclusion I or II is true.  
यदि या तो निष्कर्ष I या II सत्य है।
- (d) If neither conclusion I nor II is true.  
यदि न तो निष्कर्ष I और न ही II सत्य है।
- (e) If both conclusions I and II are true.  
यदि निष्कर्ष I और II दोनों सत्य हैं।

Q25.

Statements / कथन:

$$Q > W = T \leq K < G = H$$

Conclusion / निष्कर्ष

I:  $W < H$

II:  $K \geq Q$

(a) If only conclusion I is true.

यदि केवल निष्कर्ष I सत्य है।

(b) If only conclusion II is true.

यदि केवल निष्कर्ष II सत्य है।

(c) If either conclusion I or II is true.

यदि या तो निष्कर्ष I या II सत्य है।

(d) If neither conclusion I nor II is true.

यदि न तो निष्कर्ष I और न ही II सत्य है।

(e) If both conclusions I and II are true.

यदि निष्कर्ष I और II दोनों सत्य हैं।

**Directions (26-30):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Eight persons were born on two dates- 15<sup>th</sup> and 22<sup>nd</sup> of four different months i.e. September, October, November and December in the same year.

Two persons were born between S and A. S was born on an even date in the month having even number of days. The number of persons born before A is one less than the number of persons born after B. Q born just before B and two persons after R. C born after D and before P.

आठ व्यक्तियों का जन्म एक ही वर्ष के चार अलग-अलग महीनों अर्थात् सितंबर, अक्टूबर, नवंबर और दिसंबर की दो तिथियों- 15 और 22 को हुआ था।

S और A के मध्य दो व्यक्तियों का जन्म हुआ था। S का जन्म सम दिनों की संख्या वाले महीने में एक सम तिथि को हुआ था। A से पहले जन्मे व्यक्तियों की संख्या, B के बाद जन्मे व्यक्तियों की संख्या से एक कम है। Q का जन्म B के ठीक पहले और R के दो बाद जन्में दो व्यक्तियों के बाद हुआ है। C का जन्म D के बाद और P से पहले हुआ है।

**Q26.** Who among the following was born on 15<sup>th</sup> September?

निम्नलिखित में से किसका जन्म 15 सितंबर को हुआ?

(a) A

(b) R

(c) D

(d) C

(e) None of these / इनमें से कोई नहीं

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**Q27.** How many persons were born between R and P?

R और P के मध्य कितने व्यक्तियों का जन्म हुआ था?

- (a) Six / छह
- (b) Five / पांच
- (c) Four / चार
- (d) Three / तीन
- (e) None / कोई नहीं

**Q28.** Four among the following five pairs are alike in a certain manner and related to a group, who among the following does not belong to the group?

निम्नलिखित पांच युग्मों में से चार एक निश्चित तरीके से समान हैं और एक समूह से संबंधित हैं, निम्नलिखित में से कौन-सा उस समूह से संबंधित नहीं है?

- (a) S
- (b) R
- (c) B
- (d) D
- (e) Q

**Q29.** Which among the following statement is not true?

निम्नलिखित में से कौन सा कथन सत्य नहीं है?

- (a) R was born just before A  
R का जन्म A से ठीक पहले हुआ था।
- (b) C was born in December month  
C का जन्म दिसंबर महीने में हुआ था।
- (c) A was born before P  
A का जन्म P से पहले हुआ था।
- (d) Q and B born in the same month  
Q और B का जन्म एक ही महीने में हुआ।
- (e) All are true  
सभी सत्य हैं।

**Q30.** The number of persons born before Q is same as the number of persons born after \_\_\_\_.

Q से पहले जन्मे व्यक्तियों की संख्या \_\_\_\_\_ के बाद जन्मे व्यक्तियों की संख्या के समान है।

- (a) B
- (b) S
- (c) C
- (d) P
- (e) None of these / इनमें से कोई नहीं



**Directions (31-34):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Pont A is 6m to the north of point H which is 8m to the east of point B. Point B is 5m to the north of point F. Point E is 9m to the north of point D and 8m to the east of point F. Point G is 5m to the north of point J. Point D is 4m to the east of point G.

बिंदु A, बिंदु H के 6 मीटर उत्तर में है, बिंदु H जो बिंदु B के 8 मीटर पूर्व में है। बिंदु B, बिंदु F के 5 मीटर उत्तर में है। बिंदु E, बिंदु D के 9मी उत्तर में और बिंदु F के 8मी पूर्व में है। बिंदु G, बिंदु J के 5मी उत्तर में है। बिंदु D, बिंदु G के 4मी पूर्व में है।

**Q31.** In which direction is point E with respect to point A?

बिंदु A के सन्दर्भ में बिंदु E किस दिशा में है?

- (a) South / दक्षिण
- (b) North / उत्तर
- (c) North west / उत्तर पश्चिम
- (d) South east / दक्षिण पूर्व
- (e) East / पूर्व

**Q32.** What is the shortest distance between point D and point J?

बिंदु D और बिंदु J के मध्य न्यूनतम दूरी कितनी है?

- (a)  $\sqrt{33}m / \sqrt{33}$  मीटर
- (b)  $\sqrt{41}m / \sqrt{41}$  मीटर
- (c) 41m / 41 मीटर
- (d) 35m / 35 मीटर
- (e) None of these / इनमें से कोई नहीं

**Q33.** What is the total distance from point E to point J?

बिंदु E से बिंदु J तक कुल दूरी कितनी है?

- (a) 23m / 23 मीटर
- (b) 20m / 20 मीटर
- (c) 18m / 18 मीटर
- (d) 25m / 25 मीटर
- (e) 19m / 19 मीटर

**Q34.** Four among the following five pairs are alike in a certain manner and related to a group, which among the following does not belong to the group?

निम्नलिखित पांच युग्मों में से चार एक निश्चित तरीके से समान हैं और एक समूह से संबंधित हैं, निम्नलिखित में से कौन-सा उस समूह से संबंधित नहीं है?

- (a) A-F
- (b) E-G
- (c) D-J
- (d) B-D
- (e) E-J

**Directions (35-39):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Seven persons from A to G sit in a row such that all of them face north. Each of them likes different colour – Black, Blue, Red, Pink, Green, Golden and White. All the information is not necessarily in the same order. Two persons sit between E and the one who likes red. A is the only neighbour of the one who likes red. D sits second to the left of E. The one who likes golden sits adjacent to D and sits second to the right of C. More than three persons sit between C and F. B sits second to the left of the one who likes White. Three persons sit between G and the one who likes blue. The one who likes black sits left to the one who likes green and right to the one who likes pink.

A से G तक सात व्यक्ति एक पंक्ति में इस प्रकार बैठते हैं कि वे सभी उत्तर की ओर उन्मुख हैं। उनमें से प्रत्येक को अलग-अलग रंग पसंद हैं - काला, नीला, लाल, गुलाबी, हरा, गोल्डन और सफेद। जरूरी नहीं कि सभी जानकारी इसी क्रम में हों।

E और लाल रंग पसंद करने वाले व्यक्ति के मध्य दो व्यक्ति बैठे हैं। A, लाल रंग पसंद करने वाले का एकमात्र पड़ोसी है। D, E के बायें से दूसरे स्थान पर बैठा है। वह व्यक्ति जिसे गोल्डन रंग पसंद है वह D के आसन्न और C के दायें से दूसरे स्थान पर बैठा है। C और F के मध्य तीन से अधिक व्यक्ति बैठे हैं। B, सफेद रंग पसंद करने वाले के बायें से दूसरे स्थान पर बैठा है। G और नीला रंग पसंद करने वाले के मध्य तीन व्यक्ति बैठे हैं। वह व्यक्ति जिसे काला रंग पसंद है वह हरे रंग को पसंद करने वाले के बायें और गुलाबी रंग पसंद करने वाले के दायें बैठा है।

**Q35.** Who among the following likes pink?

निम्नलिखित में से किसे गुलाबी रंग पसंद है?

- (a) C
- (b) D
- (c) B
- (d) A
- (e) None of these / इनमें से कोई नहीं

**Q36.** Which among the following combination is correct?

निम्नलिखित में से कौन सा संयोजन सही है?

- (a) C- Black / C – काला
- (b) A- White / A – सफेद
- (c) E- Blue / E - नीला
- (d) A- Green / A – हरा
- (e) None is correct / कोई भी सही नहीं है।

**Q37.** How many persons sit between F and B?

F और B के मध्य कितने व्यक्ति बैठे हैं?

- (a) One / एक
- (b) Two / दो
- (c) None / कोई नहीं
- (d) Three / तीन
- (e) More than three / तीन से अधिक



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**Q38.** F likes which among the following colours?

F को निम्नलिखित में से कौन सा रंग पसंद है?

- (a) White / सफ़ेद
- (b) Blue / नीला
- (c) Red / लाल
- (d) Either red or blue / या तो लाल या नीला
- (e) None of these / इनमें से कोई नहीं

**Q39.** Which among the following statement(s) is/are true?

निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?

- (a) C sits adjacent to D  
C, D के आसन्न बैठा है।
- (b) E likes Black colour  
E काला रंग पसंद करता है।
- (c) One person sits between C and B  
एक व्यक्ति C और B के मध्य बैठा है।
- (d) F sits at the extreme end  
F अंतिम छोर पर बैठा है।
- (e) All are true / सभी सत्य हैं।

**Q40.** If we form a four-letter meaningful word by using the second, third, fifth and ninth letter from the left end of the word 'MICROPHONE', then which of the following will be the fourth letter of the meaningful word thus formed. If more than one word is formed mark Z as your answer. If no meaningful word is formed, mark X as your answer?

यदि हम शब्द 'MICROPHONE' के बाएं छोर से दूसरे, तीसरे, पांचवें और नौवें अक्षर का उपयोग करके चार अक्षरों का अर्थपूर्ण शब्द बनाते हैं, तो निम्न में से कौन सा अर्थपूर्ण शब्द का चौथा अक्षर होगा। यदि एक से अधिक शब्द बनते हैं तो Z को अपना उत्तर दें। यदि कोई सार्थक शब्द नहीं बनता है, तो X को अपना उत्तर दें?

- (a) O
- (b) I
- (c) C
- (d) X
- (e) Z

**Directions (41-45):** Find the wrong number in following number series.

निम्नलिखित संख्या श्रंखला में गलत संख्या ज्ञात कीजिए।

**Q41.** 118, 151, 217, 316, 445, 613, 811

- (a) 613
- (b) 445
- (c) 151
- (d) 811
- (e) 316

**Q42.** 18, 21, 23, 28, 35, 46, 59

- (a) 18
- (b) 23
- (c) 21
- (d) 35
- (e) 46

**Q43.** 2, 3, 8, 27, 112, 560, 3396

- (a) 3396
- (b) 3
- (c) 560
- (d) 27
- (e) 112

**Q44.** 8, 72, 121, 157, 182, 196, 207

- (a) 182
- (b) 72
- (c) 121
- (d) 196
- (e) 207

**Q45.** 451, 502, 550, 604, 655, 706, 757

- (a) 604
- (b) 451
- (c) 550
- (d) 655
- (e) 706

**Directions (46-50):** What approximate value should come in place of question mark (?) in following questions?

निम्नलिखित प्रश्नों में प्रश्नचिन्ह (?) के स्थान पर लगभग क्या मान आना चाहिए?

**Q46.** 64.98% of 479.99 - ? + 175.01 = 350.01

- (a) 125
- (b) 129
- (c) 137
- (d) 147
- (e) 153

**Q47.**  $(4.01)^? \times 2 = \frac{(15.92)^2}{\sqrt[4]{16.01}}$

- (a) 2
- (b) 3
- (c) 4
- (d) 1
- (e) None of these

Q48.  $3.99 \times (? + 119.94) = (7.99)^3$

- (a) 6
- (b) 12
- (c) 8
- (d) 4
- (e) 16

Q49.  $\frac{144.01}{?} + 40.01 \% \text{ of } 249.99 = 108.09$

- (a) 12
- (b) 8
- (c) 15
- (d) 18
- (e) 24

Q50.  $? \% \text{ of } 1050.03 + 363.99 = (27.97)^2$

- (a) 60
- (b) 35
- (c) 50
- (d) 40
- (e) 30

**Directions (51-55):** In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer

इनमें से प्रत्येक प्रश्न में दो समीकरण (I) और (II) दिए गए हैं। आपको दोनों समीकरणों को हल करना है और उत्तर देना है

Q51. I.  $x^2 + 7x - 98 = 0$

II.  $y^2 - y - 42 = 0$

- (a) If/यदि  $x > y$
- (b) If/यदि  $x \geq y$
- (c) If/यदि  $x < y$
- (d) If/यदि  $x \leq y$

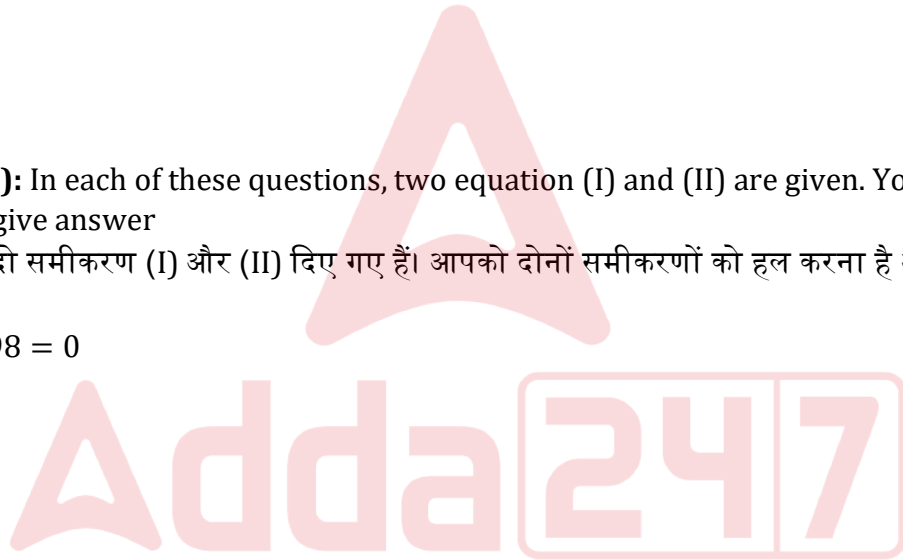
(e) If/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ /या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

Q52. I.  $12x^2 - 7x + 1 = 0$

II.  $20y^2 - 9y + 1 = 0$

- (a) If/यदि  $x > y$
- (b) If/यदि  $x \geq y$
- (c) If/यदि  $x < y$
- (d) If/यदि  $x \leq y$

(e) If/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ /या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।



Q53. I.  $x^2 + 13x - 114 = 0$

II.  $y^3 = 216$

(a) If/यदि  $x > y$

(b) If/यदि  $x \geq y$

(c) If/यदि  $x < y$

(d) If/यदि  $x \leq y$

(e) If/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ /या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

Q54. I.  $x^2 - 6x + 8 = 0$

II.  $y^2 + 2y - 8 = 0$

(a) If/यदि  $x > y$

(b) If/यदि  $x \geq y$

(c) If/यदि  $x < y$

(d) If/यदि  $x \leq y$

(e) If/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ /या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

Q55. I.  $x^2 - 11x + 30 = 0$

II.  $y^2 - 13y + 42 = 0$

(a) If/यदि  $x > y$

(b) If/यदि  $x \geq y$

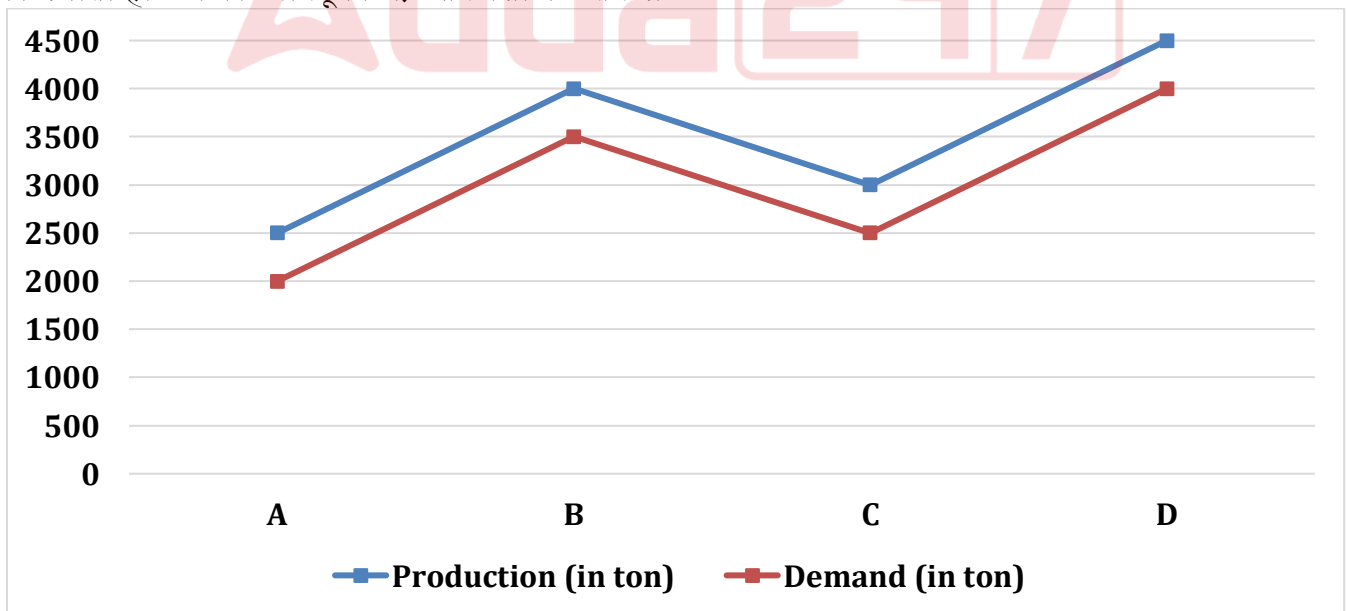
(c) If/यदि  $x < y$

(d) If/यदि  $x \leq y$

(e) If/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ /या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Directions (56-60):** The line graph given below shows the production and demand (in tons) of items of four different (A, B, C & D) manufacturing companies in 2019. Read the data carefully and answer the questions.

नीचे दिया गया रेखा आलेख 2019 में चार अलग-अलग निर्माता कंपनियों (A, B, C और D) की वस्तुओं के उत्पादन और मांग (टन में) को दर्शाता है। डेटा को ध्यानपूर्वक पढ़ें और प्रश्नों के उत्तर दें।



**Q56.** If 80% total demand of company A and 20% of total demand of company B did not deliver at the last moment, then find the difference between the items (in tons) did not deliver at the last time?

यदि कंपनी A की कुल मांग का 80% और कंपनी B की कुल मांग का 20% अंतिम समय पर वितरित न हुआ हो, तो अंतिम समय पर वितरित नहीं की गई वस्तुओं (टन में) के बीच का अंतर ज्ञात कीजिए।

- (a) 1100
- (b) 900
- (c) 700
- (d) 800
- (e) 1000

**Q57.** If non-demanded items of company C were handed to company D and it added these items them in its demanded items, then find the new demanded items (in tons) of company D?

यदि कंपनी C की मांग रहित वस्तुएँ, कंपनी D को सौंप दी गई हों और उसने इन वस्तुओं को अपनी मांग की जाने वाली वस्तुओं में जोड़ दिया हो, तो कंपनी D की नई मांग की जाने वाली वस्तुएँ (टन में) ज्ञात कीजिए।

- (a) 5500
- (b) 5000
- (c) 6000
- (d) 4500
- (e) 3500

**Q58.** If production of items of company C increased by 30% in 2020 than previous year, then find the difference between production of items of company C in 2020 and that in 2019.

यदि पिछले वर्ष की तुलना में, कंपनी C की वस्तुओं के उत्पादन में 2020 में 30% की वृद्धि हुई हो, तो कंपनी C के 2020 में हुए वस्तुओं के उत्पादन और 2019 में हुए उत्पादन के बीच का अंतर ज्ञात कीजिए।

- (a) 750 ton/ टन
- (b) 1000 ton/ टन
- (c) 850 ton/ टन
- (d) 900 ton/ टन
- (e) 800 ton/ टन

**Q59.** What is the ratio of sum of demand of items of company C and company D to production of items of company B?

कंपनी C और कंपनी D की वस्तुओं की मांग के योग और कंपनी B की वस्तुओं के उत्पादन का अनुपात क्या है?

- (a) 37: 41
- (b) 31: 23
- (c) 13: 8
- (d) 9: 4
- (e) 13: 9

**Q60.** Sum of production of company A and C is what percentage more/less than demand of items of company D?

कंपनी A और C की वस्तुओं के उत्पादन का योग, कंपनी D की वस्तुओं की मांग से कितने प्रतिशत अधिक/कम है?

- (a) 12.5%
- (b) 37.5%
- (c) 22.5%
- (d) 40%
- (e) 20%

**Directions (61-63):** There are three different hubs (IT, Food and Medical). Total number of employees in IT hub are 800 and the ratio of male to female in IT hub is 2 : 3. In Medical hub total number of employees are 1200. In Food hub total employees are 400 and the number of male and female employee working in food hub are equal.

तीन अलग-अलग हब (आईटी, फूड और मेडिकल) हैं। आईटी हब में कर्मचारियों की कुल संख्या 800 है और आईटी हब में पुरुषों और महिलाओं का अनुपात 2:3 है। मेडिकल हब में कर्मचारियों की कुल संख्या 1200 है। फूड हब में कुल कर्मचारी 400 हैं तथा फूड हब में काम करने वाले पुरुषों और महिला कर्मचारियों की संख्या समान है।

**Q61.** The ratio of male to female in Medical hub is 7 : 5, then find total number of female in Medical hub?

मेडिकल हब में पुरुषों और महिलाओं का अनुपात 7:5 है, तो मेडिकल हब में महिलाओं की कुल संख्या ज्ञात कीजिये।

- (a) 720
- (b) 500
- (c) 700
- (d) 400
- (e) 800

**Q62.** Total male in IT hub are what percent more or less than total female in Food hub?

आईटी हब में कुल पुरुष, फूड हब में कुल महिलाओं से कितने प्रतिशत अधिक या कम हैं?

- (a) 50%
- (b) 30%
- (c) 20%
- (d) 40%
- (e) 60%

**Q63.** If total males in Medical hub is 50% more than total female in IT hub, then find the ratio of total male in IT hub to total female in Medical hub?

यदि मेडिकल हब में कुल पुरुष, आईटी हब में कुल महिलाओं से 50% अधिक है, तो आईटी हब में कुल पुरुषों और मेडिकल हब में कुल महिलाओं का अनुपात ज्ञात कीजिये।

- (a) 3 : 5
- (b) 3 : 2
- (c) 1 : 3
- (d) 2 : 3
- (e) 2 : 7



**Q64.** B alone can do a work in 15 days, while A, B & C together can do the same work in 5 days. If A alone takes 8 days less than C to complete the same work, then in how many days C can complete  $\frac{3}{4}$  th of same work?

B अकेले एक काम को 15 दिनों में कर सकता है, जबकि A, B और C मिलकर उसी काम को 5 दिनों में कर सकते हैं। यदि A अकेले उसी कार्य को पूरा करने में C से 8 दिन कम लेता है, तो C उसी कार्य का  $\frac{3}{4}$  भाग कितने दिनों में पूरा कर सकता है?

- (a) 15 days/दिन
- (b) 20 days/दिन
- (c) 24 days/दिन
- (d) 18 days /दिन
- (e) 16 days/दिन

**Q65.** A man invested Rs.12500 at 10% p.a. for two years on compound interest in a scheme. If total interest received from the first scheme he invested into second scheme at 20% p.a. for two years on simple interest, then find the total interest received by man from second scheme?

एक व्यक्ति ने एक योजना में चक्रवृद्धि ब्याज पर दो वर्ष के लिए 10% प्रति वर्ष की दर से 12500 रुपये का निवेश किया। यदि पहली योजना से प्राप्त कुल ब्याज उसने साधारण ब्याज पर दो वर्ष के लिए 20% प्रति वर्ष की दर से दूसरी योजना में निवेश किया, तो दूसरी योजना से व्यक्ति को प्राप्त कुल ब्याज ज्ञात कीजिये?

- (a) Rs./रु. 3675
- (b) Rs./रु. 950
- (c) Rs./रु. 1020
- (d) Rs./रु. 1050
- (e) Rs./रु. 1080

**Q66.** A invested Rs.1600 and B invested Rs.2000 in a business. A invested for 't' months and B invested for (t + 3) months and A received Rs.400 out of total profit of Rs.1400, then find for how many months B invested?

A ने 1600 रुपये का निवेश किया और B ने एक व्यवसाय में 2000 रुपये का निवेश किया। A ने 't' महीने के लिए निवेश किया और B ने (t + 3) महीने के लिए निवेश किया और A ने 1400 रुपये के कुल लाभ में से 400 रुपये प्राप्त किए, तो B ने कितने महीनों के लिए निवेश किया?

- (a) 10 months/महीने
- (b) 5 months/ महीने
- (c) 8 months/ महीने
- (d) 9 months/ महीने
- (e) 6 months/ महीने

**Directions (67-71):** The following table shows the total number of students in five different colleges and percentage of Masters students in college.

निम्न सारणी पांच अलग-अलग महाविद्यालयों में छात्रों की कुल संख्या और महाविद्यालय में परास्नातक छात्रों के प्रतिशत को दर्शाती है।

Note: Total students in any college = Students in Masters + Students in Bachelors

नोट: किसी भी महाविद्यालय में कुल छात्र = परास्नातक में छात्र + स्नातक में छात्र

Colleges/ महाविद्यालय	Total Students/ कुल छात्र	% of Masters students/ परास्नातक छात्रों का %
A	1000	20%
B	1250	30%
C	1500	15%
D	850	14%
E	1400	37.5%

**Q67.** Find the difference between total bachelor students in A and D together to total bachelor students in B and E together?

A और D में एकसाथ कुल स्नातक छात्रों और B और E में एकसाथ कुल स्नातक छात्रों का अंतर ज्ञात कीजिए?

- (a) 118
- (b) 219
- (c) 231
- (d) 178
- (e) 197

**Q68.** If the ratio of number of males to female bachelor students in college C is 7: 8, then find the number of female bachelor students of college C is what percentage of total students of college C?

यदि महाविद्यालय C में पुरुष स्नातक छात्रों और महिला स्नातक छात्रों की संख्या का अनुपात 7:8 है, तो महाविद्यालय C की महिला स्नातक छात्रों की संख्या महाविद्यालय C के कुल छात्रों का कितना प्रतिशत है?

- (a)  $33\frac{1}{3}\%$
- (b)  $48\frac{2}{3}\%$
- (c)  $45\frac{1}{3}\%$
- (d)  $53\frac{1}{3}\%$
- (e) 60%

**Q69.** Find the average number of bachelor students in college A, B and E?

महाविद्यालय A, B और E में स्नातक छात्रों की औसत संख्या ज्ञात कीजिए?

- (a) 850
- (b) 860
- (c) 840
- (d) 890
- (e) 865

**Q70.** If  $42\frac{6}{7}\%$  of Masters students of college D got scholarship, then find the number of Masters students of college D who didn't got scholarship?

यदि महाविद्यालय D के  $42\frac{6}{7}\%$  परास्नातक छात्रों को छात्रवृत्ति मिलती है, तो महाविद्यालय D के परास्नातक छात्रों की संख्या ज्ञात कीजिए जिन्हें छात्रवृत्ति नहीं मिली है?

- (a) 63
- (b) 71
- (c) 56
- (d) 78
- (e) 68

**Q71.** Number of Masters students in college B and C together is what percentage more/less than that in college A?

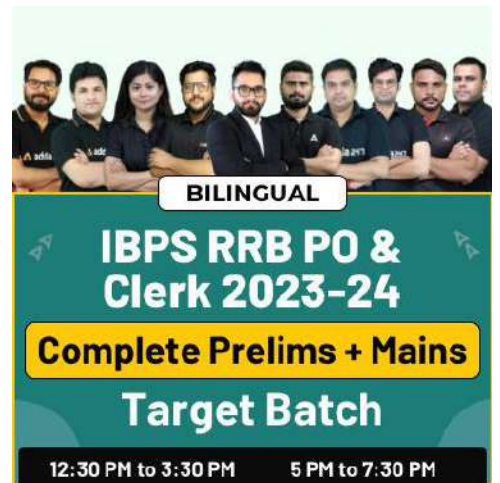
महाविद्यालय B और C में एकसाथ स्नातकोत्तर छात्रों की संख्या महाविद्यालय A से कितने प्रतिशत अधिक/कम है?

- (a) 100%
- (b) 200%
- (c) 150%
- (d) 50%
- (e) 75%

**Q72.** A train can cross a 100 meters long platform in 12 seconds. If train crosses a bridge, which is double of its length in 21 seconds, then find the speed (in m/s) of the train?

एक रेलगाड़ी 100 मीटर लंबे प्लेटफॉर्म को 12 सेकंड में पार कर सकती है। यदि रेलगाड़ी 21 सेकंड में एक पुल को पार करती है, जो इसकी लंबाई से दोगुना है, तो रेलगाड़ी की गति (मी/सेकंड में) ज्ञात कीजिए?

- (a) 12
- (b) 15
- (c) 18
- (d) 20
- (e) 24



**BILINGUAL**

**IBPS RRB PO & Clerk 2023-24**

**Complete Prelims + Mains**

**Target Batch**

12:30 PM to 3:30 PM | 5 PM to 7:30 PM

**Q73.** A shopkeeper marked up the price of an article by 40% above cost price and he allows 25% discount on marked price. If shopkeeper earns Rs. 420 as profit, then find his profit (in Rs.) when he allows discount of 20% instead of 25%?

एक दुकानदार एक वस्तु का मूल्य क्रय मूल्य से 40% अधिक अंकित करता है और वह अंकित मूल्य पर 25% की छूट देता है। यदि दुकानदार लाभ के रूप में 420 रुपये कमाता है, तो उसका लाभ (रु में) ज्ञात कीजिए जब वह 25% के बजाय 20% की छूट देता है?

- (a) Rs/रु 1204
- (b) Rs/रु 1240
- (c) Rs/रु 1180
- (d) Rs/रु 1008
- (e) Rs/रु 1080

**Q74.** In an election only two candidates participate and candidate 'P' got 50% less votes than 'Q'. If Q got 200 votes less, then there would have been a tie. Find the total number of total votes polled?

एक चुनाव में केवल दो उम्मीदवार भाग लेते हैं और उम्मीदवार 'P' को 'Q' से 50% कम मत मिलते हैं। यदि Q को 200 मत कम मिलते, तो बराबरी हो जाती। डाले गए कुल मतों की संख्या ज्ञात कीजिए?

- (a) 800
- (b) 2000
- (c) 1600
- (d) 1200
- (e) 1400

**Q75.** The ratio of P's age four years hence to Q's age two years ago is 4 : 5 and the average of their age three years ago was 23 years. Find the present age of P?

चार वर्ष बाद P की आयु और दो वर्ष पूर्व Q की आयु का अनुपात 4:5 है और तीन वर्ष पूर्व उनकी आयु का औसत 23 वर्ष था। P की वर्तमान आयु ज्ञात कीजिए?

- (a) 25 years/वर्ष
- (b) 29 years/वर्ष
- (c) 23 years/वर्ष
- (d) 33 years/वर्ष
- (e) 20 years/वर्ष

**Q76.** The sum of area of a circle and area of a rectangle is equal to 2136 sq. cm. If the diameter of the circle is 42 cm & the breath of the rectangle is 30 cm, then find the difference between the circumference of the circle and the perimeter of the rectangle?

एक वृत्त के क्षेत्रफल और एक आयत के क्षेत्रफल का योग 2136 वर्ग सेमी के बराबर होता है। यदि वृत्त का व्यास 42 सेमी है और आयत की चौड़ाई 30 सेमी है, तो वृत्त की परिधि और आयत के परिमाण के बीच का अंतर ज्ञात कीजिए?

- (a) 42 cm/सेमी
- (b) 22 cm/सेमी
- (c) 30 cm/सेमी
- (d) 11 cm/सेमी
- (e) 18 cm/सेमी

**Q77.** Average of marks scored by Deepak in English, Hindi and Math is 70 and average marks scored by Deepak in English and Math are 73. If marks of Deepak in Science are 25% more than his marks in Hindi, then find average marks scored by Deepak in these four subjects?

दीपक द्वारा अंग्रेजी, हिंदी और गणित में प्राप्त अंकों का औसत 70 है और दीपक द्वारा अंग्रेजी और गणित में प्राप्त अंकों का औसत 73 है। यदि विज्ञान में दीपक के अंक हिंदी में उसके अंकों से 25% अधिक हैं, तो इन चार विषयों में दीपक द्वारा प्राप्त औसत अंक ज्ञात कीजिए?

- (a) 76.5
- (b) 72.5
- (c) 71.5
- (d) 75.5
- (e) 78.5

**Q78.** A vessel contains 80 liters mixture of water and milk in the ratio 5 : 3 respectively. If 20 liters mixture from the vessel is completely replaced with milk, then find ratio of milk to water in the final mixture in the vessel?

एक बर्तन में 80 लीटर पानी और दूध का मिश्रण क्रमशः 5:3 के अनुपात में है। यदि बर्तन से 20 लीटर मिश्रण को पूरी तरह से दूध से बदल दिया जाता है, तो बर्तन में अंतिम मिश्रण में दूध और पानी का अनुपात ज्ञात कीजिये?

- (a) 17:15
- (b) 5:4
- (c) 3:2
- (d) 11:7
- (e) None of the above.

**Q79.** The speed of car A and car B is  $x$  km/hr. &  $(x + 20)$  km/hr. respectively. If car A moves from P to Q and car B moves from Q to P, then they meet in 5 hours. Car A takes 2 hr 15min more than car B to cover distance between P and Q. Find the distance between P and Q?

कार A और कार B की गति क्रमशः  $x$  किमी/घंटा और  $(x + 20)$  किमी/घंटा है। यदि कार A, P से Q की ओर चलती है और कार B, Q से P की ओर चलती है, तो वे 5 घंटे में मिलती हैं। कार A, P और Q के बीच की दूरी तय करने में कार B से 2 घंटा 15 मिनट अधिक लेती है। P और Q के बीच की दूरी ज्ञात कीजिए?

- (a) 800km/किमी
- (b) 720 km/किमी
- (c) 900 km/किमी
- (d) 1080 km/किमी
- (e) 1260 km/किमी

**Q80.** Speed of a motor boat in still water is 18 kmph. If the motor boat travels 90 km along the stream in 3 hours, then find the time taken by the motor boat to cover the same distance against the stream?

स्थिर जल में एक मोटर बोट की गति 18 किमी/घंटा है। यदि मोटर बोट 3 घंटे में धारा के साथ 90 किमी की यात्रा करती है, तो मोटर बोट द्वारा धारा के विपरीत समान दूरी तय करने में कितना समय लगता है?

- (a) 18 hours/घंटे
- (b) 15 hours/घंटे
- (c) 16 hours/घंटे
- (d) 17 hours/घंटे
- (e) 19 hours/घंटे

TEST SERIES

BILINGUAL

VIDEO SOLUTIONS



**IBPS 2023**

**RRB CLERK**

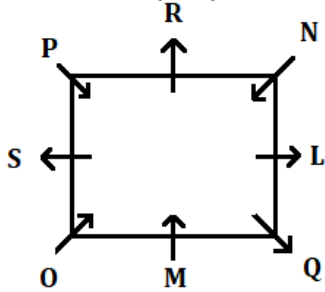
**PRELIMS + MAINS**

**190+ TOTAL TESTS**



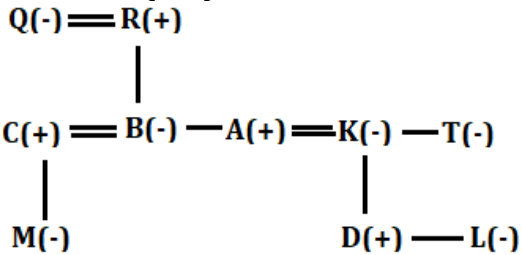
# IBPS RRB PO Prelims Previous Year Questions 2022 (Solution)

Solutions (1-5):



- S1. Ans.(b)
- S2. Ans.(c)
- S3. Ans.(a)
- S4. Ans.(d)
- S5. Ans.(c)

Solutions (6-9):



- S6. Ans.(d)
- S7. Ans.(b)
- S8. Ans.(d)
- S9. Ans.(a)

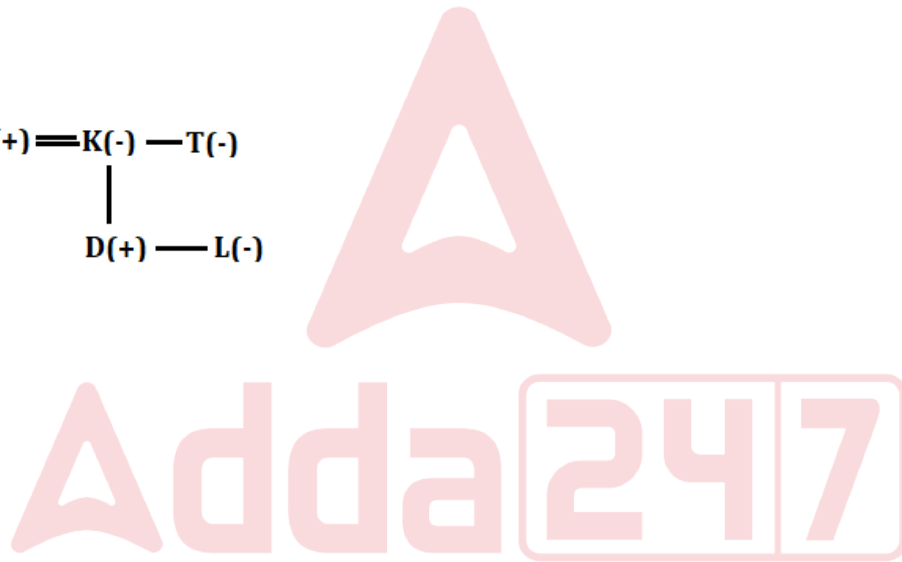
S10. Ans.(e)  
Sol.



Solutions (11-15):



- S11. Ans.(d)
- S12. Ans.(a)
- S13. Ans.(e)
- S14. Ans.(c)
- S15. Ans.(c)



TEST SERIES  
BILINGUAL  
VIDEO SOLUTIONS

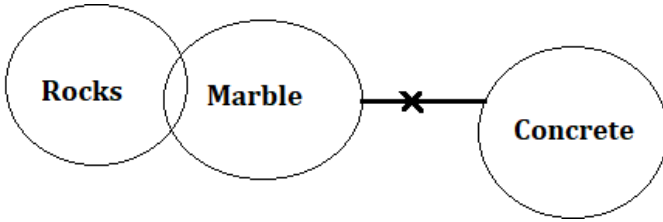
**IBPS 2023  
RRB PO  
PRELIMS + MAINS**

**210+ TOTAL TESTS**

**Solution (16-20):**

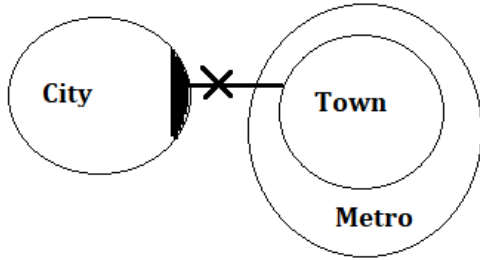
**S16. Ans.(c)**

**Sol.**



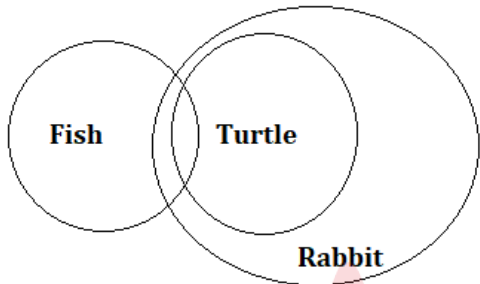
**S17. Ans.(b)**

**Sol.**



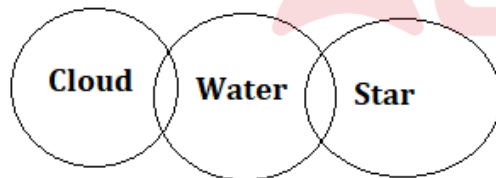
**S18. Ans.(a)**

**Sol.**



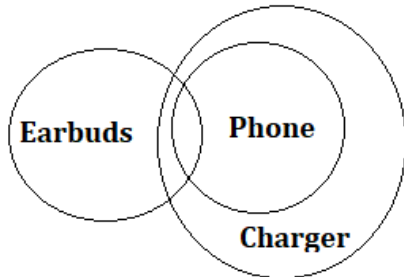
**S19. Ans.(b)**

**Sol.**



**S20. Ans.(a)**

**Sol.**





S21. Ans.(d)

Sol. Number-3852364718

After rearrangement- 4761453827

Sum= 8+4=12

Solution (22-25):

S22. Ans.(c)

S23. Ans.(d)

S24. Ans.(d)

S25. Ans.(a)

Solution (26-30):

Month	Date	Persons
September	15	D
	22	R
October	15	A
	22	Q
November	15	B
	22	S
December	15	C
	22	P

S26. Ans.(c)

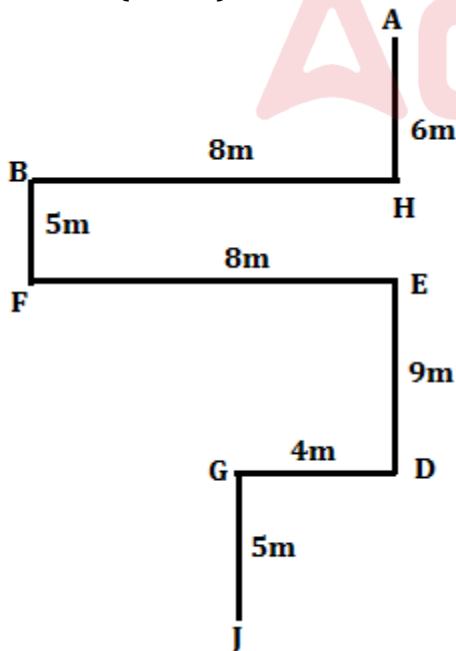
S27. Ans.(b)

S28. Ans.(e)

S29. Ans.(d)

S30. Ans.(a)

Solution (31-34):



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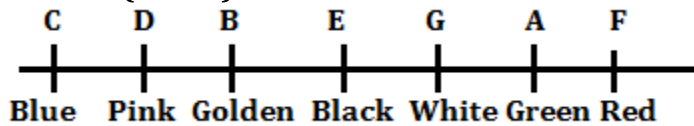
S31. Ans.(a)

S32. Ans.(b)

S33. Ans.(c)

S34. Ans.(d)

Solution (35-39):



S35. Ans.(b)

S36. Ans.(d)

S37. Ans.(d)

S38. Ans.(c)

S39. Ans.(e)

S40. Ans.(e)

Sol. "ICON, COIN"

S41. Ans.(b)

Sol. Wrong number = 445

Patter of series -

$$118 + (33 \times 1) = 151$$

$$151 + (33 \times 2) = 217$$

$$217 + (33 \times 3) = 316$$

$$316 + (33 \times 4) = 448$$

$$448 + (33 \times 5) = 613$$

$$613 + (33 \times 6) = 811$$

S42. Ans.(c)

Sol. Wrong number = 21

Patter of series -

Addition of consecutive prime numbers

$$18 + 2 = 20$$

$$20 + 3 = 23$$

$$23 + 5 = 28$$

$$28 + 7 = 35$$

$$35 + 11 = 46$$

$$46 + 13 = 59$$

S43. Ans.(c)

Sol. Wrong number = 560

Patter of series -

$$2 \times 1 + 1 = 3$$

$$3 \times 2 + 2 = 8$$

$$8 \times 3 + 3 = 27$$

$$27 \times 4 + 4 = 112$$

$$112 \times 5 + 5 = 565$$

$$565 \times 6 + 6 = 3396$$

**S44. Ans.(d)**

**Sol.** Wrong number = 196

Patter of series –

$$8 + 8^2 = 72$$

$$72 + 7^2 = 121$$

$$121 + 6^2 = 157$$

$$157 + 5^2 = 182$$

$$182 + 4^2 = 198$$

$$198 + 3^2 = 207$$

**S45. Ans.(c)**

**Sol.** Wrong number = 550

Patter of series –

$$451 + 51 = 502$$

$$502 + 51 = 553$$

$$553 + 51 = 604$$

$$604 + 51 = 655$$

$$655 + 51 = 706$$

$$706 + 51 = 757$$

**S46. Ans.(c)**

**Sol.**  $65\% \times 480 - ? + 175 = 350$

$$? = 137$$

**S47. Ans.(b)**

$$\text{Sol. } 4^? \times 2 = \frac{16^2}{\sqrt[4]{16}}$$

$$4^? \times 2 = \frac{256}{2}$$

$$4^? = 64$$

$$4^? = (4)^3$$

$$? = 3$$

**S48. Ans.(c)**

**Sol.**  $4 \times (? + 120) = (8)^3$

$$4 \times ? = 512 - 480$$

$$? = \frac{32}{4}$$

$$? = 8$$

**S49. Ans.(d)**

**Sol.**  $\frac{144}{?} + \frac{40}{100} \times 250 = 108$

$$\frac{144}{?} + 100 = 108$$

$$\frac{144}{?} = 8$$

$$? = 18$$



**S50. Ans.(d)**

$$\text{Sol. } \frac{?}{100} \times 1050 + 364 = (28)^2$$

$$\frac{?}{100} \times 1050 = 784 - 364$$

$$\frac{?}{100} \times 1050 = 420$$

$$? = \frac{420 \times 100}{1050}$$

$$? = 40$$

**S51. Ans.(e)****Sol.**

$$\text{I. } x^2 + 7x - 98 = 0$$

$$x^2 + 14x - 7x - 98 = 0$$

$$x(x + 14) - 7(x + 14) = 0$$

$$(x + 14)(x - 7) = 0$$

$$x = -14, 7$$

$$\text{II. } y^2 - y - 42 = 0$$

$$y^2 - 7y + 6y - 42 = 0$$

$$y(y - 7) + 6(y - 7) = 0$$

$$(y + 6)(y - 7) = 0$$

$$y = -6, 7$$

So, no relation can be established between x and y.

**S52. Ans.(b)****Sol.**

$$\text{I. } 12x^2 - 7x + 1 = 0$$

$$12x^2 - 4x - 3x + 1 = 0$$

$$4x(3x - 1) - 1(3x - 1) = 0$$

$$(3x - 1)(4x - 1) = 0$$

$$x = \frac{1}{3}, \frac{1}{4}$$

$$\text{II. } 20y^2 - 9y + 1 = 0$$

$$20y^2 - 5y - 4y + 1 = 0$$

$$5y(4y - 1) - 1(4y - 1) = 0$$

$$(4y - 1)(5y - 1) = 0$$

$$y = \frac{1}{4}, \frac{1}{5}$$

So,  $x \geq y$

**S53. Ans.(d)****Sol.**

$$\text{I. } x^2 + 13x - 114 = 0$$

$$x^2 + 19x - 6x - 114 = 0$$

$$x(x + 19) - 6(x + 19) = 0$$

$$(x + 19)(x - 6) = 0$$

$$x = -19, 6$$

$$\text{II. } y^3 = 216$$

$$y^3 = 6^3$$

$$y = 6$$

So,  $x \leq y$

**S54. Ans.(b)****Sol.**

**I.**  $x^2 - 6x + 8 = 0$

$x^2 - 4x - 2x + 8 = 0$

$x(x - 4) - 2(x - 4) = 0$

$(x - 4)(x - 2) = 0$

$x = 2, 4$

**II.**  $y^2 + 2y - 8 = 0$

$y^2 + 4y - 2y - 8 = 0$

$y(y + 4) - 2(y + 4) = 0$

$(y + 4)(y - 2) = 0$

$y = -4, 2$

So,  $x \geq y$

**S55. Ans.(d)****Sol.**

**I.**  $x^2 - 5x - 6x + 30 = 0$

$x(x - 5) - 6(x - 5) = 0$

$(x - 5)(x - 6) = 0$

$x = 5, 6$

**II.**  $y^2 - 6y - 7y + 42 = 0$

$y(y - 6) - 7(y - 6) = 0$

$(y - 6)(y - 7) = 0$

$y = 6, 7$

So,  $y \geq x$

**S56. Ans.(b)**

**Sol.** Required difference =  $2000 \times \frac{80}{100} - 3500 \times \frac{20}{100}$   
 $= 1600 - 700 = 900$

**S57. Ans.(d)**

**Sol.** Required new demanded items (in tons) of company D =  $(3000 - 2500) + 4000 = 4500$

**S58. Ans.(d)**

**Sol.** Production of items of company C =  $3000 \times \frac{130}{100} = 3900 \text{ ton}$

So, required difference =  $3900 - 3000 = 900 \text{ ton}$

**S59. Ans.(c)**

**Sol.** Required ratio =  $\frac{2500+4000}{4000}$   
 $= \frac{6500}{4000} = 13:8$

**S60. Ans.(b)**

$$\text{Sol. Required percentage} = \frac{(2500+3000)-4000}{4000} \times 100$$

$$= \frac{1500}{40} = 37.5\%$$

**Solutions (61-63):**

$$\text{Total male in IT hub} = 800 \times \frac{2}{5} = 320$$

$$\text{Total female in IT hub} = 800 - 320 = 480$$

$$\text{Total male in Food hub} = \frac{400}{2} = 200$$

$$\text{Total female in Food hub} = 400 - 200 = 200$$

**S61. Ans.(b)**

$$\text{Sol. Total number of females in Medical hub} = 1200 \times \frac{5}{12} = 500$$

**S62. Ans.(e)**

$$\text{Sol. Required percentage} = \frac{320-200}{200} \times 100 = 60\%$$

**S63. Ans.(d)**

$$\text{Sol. Total males in Medical hub} = 480 \times \frac{150}{100} = 720$$

$$\text{Required ratio} = 320 : (1200 - 720) = 2 : 3$$

**S64. Ans.(a)**

**Sol.** Let C alone takes 'd' days to complete the work alone

So, A takes (d - 8) days to complete the work alone

ATQ -

$$\frac{1}{(d-8)} + \frac{1}{15} + \frac{1}{d} = \frac{1}{5}$$

$$\frac{2}{15} = \frac{1}{d} + \frac{1}{(d-8)}$$

$$d^2 - 23d + 60 = 0$$

$$d = 20 \text{ \& } d = 3$$

here vale of d can't be 3

$$\text{So, Required days} = 20 \times \frac{3}{4} = 15 \text{ days}$$

**S65. Ans.(d)**

$$\text{Sol. Equivalent interest rate at 10\% p.a. for two years on compound interest} = 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

$$\text{Total interest received form first scheme} = 12500 \times \frac{21}{100} = 2625 \text{ Rs.}$$

$$\text{Required interest} = 2625 \times \frac{20 \times 2}{100} = \text{Rs.1050}$$



**S66. Ans.(e)**

**Sol.** ATQ –

$$\frac{1600 \times t}{2000 \times (t+3)} = \frac{400}{1400-400}$$

$$t = 3$$

So, B invested for  $(3 + 3) = 6$  months

**Solutions (67-71):** In college A,

$$\text{Students in Masters} = 1000 \times \frac{20}{100} = 200$$

$$\text{Students in Bachelors} = 1000 - 200 = 800$$

Similarly,

College	Total students	Number of Masters students	Number of Bachelors students
A	1000	200	800
B	1250	375	875
C	1500	225	1275
D	850	119	731
E	1400	525	875

**S67. Ans.(b)**

$$\begin{aligned} \text{Sol. Required difference} &= (875 + 875) - (800 + 731) \\ &= 1750 - 1531 = 219 \end{aligned}$$

**S68. Ans.(c)**

$$\text{Sol. Number of female bachelor students in college C} = 1275 \times \frac{8}{15} = 680$$

$$\text{Required percentage} = \frac{680}{1500} \times 100 = 45\frac{1}{3}\%$$

**S69. Ans.(a)**

$$\text{Sol. Required average} = \frac{800+875+875}{3} = \frac{2550}{3} = 850$$

**S70. Ans.(e)**

$$\text{Sol. Number of students who didn't get scholarship} = \frac{4}{7} \times 119 = 68$$

**S71. Ans.(b)**

$$\text{Sol. Required percentage} = \frac{(375+225)-200}{200} \times 100 = 200\%$$

**S72. Ans.(d)**

**Sol.** Let the length of train = x

and, the speed of train = s

ATQ,

$$\frac{x+100}{12} = s \text{ ----- (i)}$$

$$\text{And, } s = \frac{3x}{21} \text{ ----- (ii)}$$

From (i) & (ii)

$$\frac{x+100}{12} = \frac{x}{7}$$

$$7x + 700 = 12x$$

$$5x = 700$$

$$x = 140$$

$$\text{Speed of train} = \frac{3 \times 140}{21} = 20 \text{ m/s}$$

**S73. Ans.(d)**

**Sol.** Let the cost price of article be Rs  $100x$

$$\text{Mark up price of article} = 100x \times \frac{140}{100} = \text{Rs } 140x$$

$$\text{Selling price of article} = 140x \times \frac{75}{100} = \text{Rs } 105x$$

ATQ,

$$\therefore (105x - 100x) = 420$$

$$x = 84$$

$$\therefore \text{cost price} = \text{Rs } 8400$$

$$\text{Mark up price} = 84 \times 140 = \text{Rs } 11760$$

$$\therefore \text{selling price after 20\% discount}$$

$$= 11760 \times \frac{80}{100} = 9408$$

$$\therefore \text{Profit after 20\% discount} = 9408 - 8400 = \text{Rs } 1008$$

**S74. Ans.(d)**

**Sol.** Q got =  $100x$  votes

So, P got =  $50x$  votes

Total votes =  $150x$  votes

For tie, Q's votes = P's votes =  $75x$

$$100x - 75x = 200$$

$$x = 8$$

$$\text{Total votes polled} = 8 \times 150 = 1200$$

**S75. Ans.(e)**

**Sol.** Let present age of P and Q be 'x' and 'y' years respectively.

ATQ,

$$x + y = 23 \times 2 + 3 \times 2$$

$$x + y = 52 \dots(i)$$

and,

$$\frac{x+4}{y-2} = \frac{4}{5}$$

$$5x + 20 = 4y - 8$$

$$5x - 4y = -28 \dots(ii)$$

From (i) and (ii)

$$x = 20 \text{ years.}$$



**S76. Ans.(b)****Sol.**  $\pi r^2 + lb = 2136$  (where r- radius of circle, l- length of rectangle & b- breadth of rectangle)

$$\frac{22}{7} \times 21 \times 21 + l \times 30 = 2136$$

$$l = \frac{750}{30} = 25\text{cm}$$

So, circumference of circle =  $2\pi r$ 

$$= 2 \times \frac{22}{7} \times 21$$

$$= 132 \text{ cm}$$

Perimeter of rectangle =  $2 \times (l + b)$ 

$$= 2 (25 + 30)$$

$$= 110 \text{ cm}$$

$$\therefore \text{Required difference} = 132 - 110 = 22 \text{ cm}$$

**S77. Ans.(b)****Sol.** Marks of Deepak in Hindi =  $(70 \times 3) - (73 \times 2) = 64$ 

$$\text{Marks of Deepak in Science} = 64 \times \frac{125}{100} = 80$$

$$\text{Required average} = \frac{64+80+73 \times 2}{4} = 72.5$$

**S78. Ans.(a)****Sol.** ATQ,

$$\text{Quantity of milk in the final mixture in the vessel} = \left(80 \times \frac{3}{8}\right) - \left(20 \times \frac{3}{8}\right) + 20$$

$$= 42.5 \text{ liters}$$

$$\text{Quantity of water in the final mixture in the vessel} = \left(80 \times \frac{5}{8}\right) - \left(20 \times \frac{5}{8}\right)$$

$$= 37.5 \text{ liters}$$

$$\text{Required ratio} = \frac{42.5}{37.5} = 17:15$$

**S79. Ans.(c)****Sol.** Let the distance between P & Q be 'd' km.

ATQ,

$$d = 5(x + x + 20)$$

$$\Rightarrow d = 10x + 100 \text{ -----(i)}$$

and,

$$\frac{d}{x} - \frac{d}{(x+20)} = \frac{9}{4} \text{ ----- (ii)}$$

From (i) &amp; (ii)

$$9x^2 - 620x - 8000 = 0$$

$$\Rightarrow x = 80 \text{ or } \frac{-100}{9}$$

$$\text{Required distance} = 10 \times 80 + 100 = 900\text{km}$$

**S80. Ans.(b)**

**Sol.** The speed of motor boat in still water =  $x = 18$  km/hr

Let the speed of current is  $y$  km/hr

ATQ

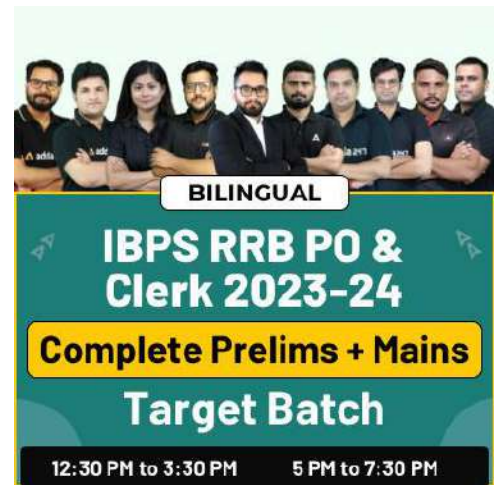
$$\frac{90}{18 + y} = 3$$

$$y = 12 \text{ km/h}$$

time taken by it to cover the same distance against the stream

$$= \frac{90}{18 - 12} = \frac{90}{6}$$

$$= 15 \text{ hours}$$



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## IBPS RRB Clerk Prelims Previous Year Questions 2022

**Directions (1-5):** In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

इन प्रश्नों में कथनों में विभिन्न तत्वों के बीच संबंध को दर्शाया गया है। कथनों के बाद निष्कर्ष दिए गए हैं। दिए गए कथनों के आधार पर निष्कर्षों का अध्ययन कीजिए और उपयुक्त उत्तर का चयन कीजिए:

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q1. Statements/कथन:**  $F > R \geq T = E > W \leq Q$

**Conclusions/निष्कर्ष:** I.  $E < F$

II.  $Q \geq T$

**Q2. Statements/कथन:**  $W = G \geq T = C \leq V \leq B$

**Conclusions/निष्कर्ष:** I.  $W > C$

II.  $W = T$

**Q3. Statements/कथन:**  $K > I \geq G > F \leq T < R$

**Conclusions/निष्कर्ष:** I.  $K > R$

II.  $R > G$

**Q4. Statements/कथन:**  $Q > O \geq P = K < U \leq Z$

**Conclusions/निष्कर्ष:** I.  $Z > K$

II.  $Q > U$

**Q5. Statements/कथन:**  $K < G \leq D < C > R \leq Y$

**Conclusions/निष्कर्ष:** I.  $C > G$

II.  $K < D$

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**Directions (6-10):** Study the following sequence carefully and answer the given questions.

निम्नलिखित अनुक्रम का ध्यानपूर्वक अध्ययन कीजिए और दिए गए प्रश्नों के उत्तर दीजिए।

**B @ 9 # C 1 £ 2 8 D μ 7 K 5 L E % U & F € M G 4 ! 3 Z ? 6 X ¥ P 5 A © 6**

**Q6.** Which of the following element is sixth to the left of the eighth element from the right end of the given arrangement?

निम्नलिखित में से कौन सा तत्व दी गई व्यवस्था के दायें छोर से आठवें तत्व के बायें से छठे स्थान पर है?

- (a) M
- (b) 4
- (c) G
- (d) 3
- (e) None of these \ इनमें से कोई नहीं

**Q7.** How many such letters are there in the given series which are immediately preceded by a symbol and immediately followed by a number?

दी गई श्रृंखला में ऐसे कितने वर्ण हैं जिनके ठीक पहले एक प्रतीक और ठीक बाद एक संख्या है?

- (a) Two \ दो
- (b) Four \ चार
- (c) None \ कोई नहीं
- (d) Three \ तीन
- (e) More than four \ चार से अधिक

**Q8.** If all the letters are dropped in the given series, which element will be eleventh from the right end?

यदि दी गई श्रृंखला में सभी वर्णों को हटा दिया जाए, तो कौन सा तत्व दायें छोर से ग्यारहवें स्थान पर होगा?

- (a) 4
- (b) %
- (c) &
- (d) 5
- (e) None of these

इनमें से कोई नहीं

**Q9.** Which of the following element is fourth to the right of the ninth element from the left end of the given arrangement?

निम्नलिखित में से कौन सा तत्व दी गई व्यवस्था के बायें छोर से नौवें तत्व के दायें से चौथे स्थान पर है?

- (a) 8
- (b) K
- (c) E
- (d) P
- (e) L

**Q10.** How many such symbols are there in the given series which are immediately preceded by a vowel and immediately followed by a number?

दी गई श्रृंखला में ऐसे कितने प्रतीक हैं जिनके ठीक पहले एक स्वर और ठीक बाद एक संख्या है?

- (a) None\कोई नहीं
- (b) One\एक
- (c) Two\दो
- (d) Three\तीन
- (e) More than three\तीन से अधिक

**Directions (11-15):** Study the given information carefully and answer the given questions.

दी गई जानकारी को ध्यानपूर्वक पढ़िए और दिए गए प्रश्नों के उत्तर दीजिए।

Six persons were born on two different dates either 11 or 22 of three different months viz. September, October and November. F was born on an odd date in the month which has even days. Two persons were born between Q and F. More than two persons were born between Q and T. R was born before D and after B.

छह व्यक्तियों का जन्म दो अलग-अलग तारीखों अर्थात् या तो 11 या 22 को तीन अलग-अलग महीनों अर्थात् सितंबर, अक्टूबर और नवंबर में हुआ था। F का जन्म उस महीने में एक विषम तिथि को हुआ था, जिसमें सम दिन होते हैं। Q और F के बीच दो व्यक्तियों का जन्म हुआ। Q और T के बीच दो से अधिक व्यक्तियों का जन्म हुआ। R का जन्म D से पहले और B के बाद हुआ था।

**Q11.** How many persons were born after R?

R के बाद कितने व्यक्तियों का जन्म हुआ?

- (a) Two\दो
- (b) One\एक
- (c) None\कोई नहीं
- (d) Three\तीन
- (e) None of these \इनमें से कोई नहीं

**Q12.** Who was born on 11th November?

11 नवंबर को किसका जन्म हुआ था?

- (a) Q
- (b) F
- (c) D
- (d) T
- (e) None of these \इनमें से कोई नहीं

**Q13.** Which of the following statement is true?

निम्नलिखित में से कौन सा कथन सत्य है?

**I.** More than four persons were born after T

**II.** Two persons were born between B and D

**III.** At least one person was born after F

**I.** T के बाद चार से अधिक व्यक्तियों का जन्म हुआ

**II.** B और D के बीच दो व्यक्तियों का जन्म हुआ

**III.** F के बाद कम से कम एक व्यक्ति का जन्म हुआ

(a) Both II and III\II और III दोनों

(b) Only III\केवल III

(c) Both I and II\I और II दोनों

(d) Only I\केवल I

(e) All I, II and III\सभी I, II और III

**Q14.** Who among the following was born in October?

निम्नलिखित में से किसका जन्म अक्टूबर में हुआ था?

(a) R

(b) Q

(c) D

(d) Both R and D\R और D दोनों

(e) Both Q and D\Q और D दोनों

**Q15.** \_\_\_ persons were born after D.

\_\_\_ व्यक्ति/व्यक्तियों का जन्म D के बाद हुआ था।

(a) One\एक

(b) Four\चार

(c) Three\तीन

(d) Two\दो

(e) None of these \इनमें से कोई नहीं

**Directions (16-18):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

There are seven members in a family in which two are married couples. S is grandmother of K. B is father-in-law of A. C is mother of D. J is brother of K and his mother is D. J and K are unmarried.

एक परिवार में सात सदस्य हैं, जिसमें दो विवाहित जोड़े हैं। S, K की ग्रैंडमदर है। B, A का ससुर है। C, D की माता है। J, K का भाई है और उसकी माता D है। J और K अविवाहित हैं।

**Q16.** How is S related to D?

S, D से किस प्रकार संबंधित है?

- (a) Mother\माता
- (b) Sister\बहन
- (c) Mother-in-law\सास
- (d) Grandmother\ग्रैंडमदर
- (e) None of these\इनमें से कोई नहीं

**Q17.** How is C related to K?

C, K से किस प्रकार संबंधित है?

- (a) Mother\माता
- (b) Mother-in-law\सास
- (c) Paternal grandmother\दादी
- (d) Maternal grandmother\नानी
- (e) Can't be determined\निर्धारित नहीं किया जा सकता

**Q18.** How many female members in the family?

परिवार में कितनी महिला सदस्य हैं?

- (a) Two\दो
- (b) Four\चार
- (c) Three\तीन
- (d) Five\पांच
- (e) Can't be determined \निर्धारित नहीं किया जा सकता

**Q19.** In the number '95273524', how many pairs of the digits have the same digits between them (both forward and backward direction) as in the number series?

संख्या '95273524' में, आगे और पीछे दोनों तरफ से ऐसे कितने अंकों के युग्म हैं जिनके बीच उतने ही अंक हैं, जितने संख्या श्रृंखला में उनके बीच हैं?

- (a) Four\चार
- (b) Two\दो
- (c) One\एक
- (d) Three\तीन
- (e) More than four\चार से अधिक

**Directions (20-24):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Seven people sit around a circular table and they all are facing the center. One person sits between M and K. N sits 3<sup>rd</sup> to the left of K. D is neither an immediate neighbour of M nor N. G sits 2<sup>nd</sup> to the right of D. O sits 2<sup>nd</sup> to the left of L.

सात व्यक्ति एक वृत्ताकार मेज के इर्द-गिर्द बैठे हैं और वे सभी केंद्र की ओर मुख करके बैठे हैं। M और K के मध्य एक व्यक्ति बैठा है। N, K के बायें से तीसरे स्थान पर बैठा है। D न तो M और न ही N का निकटतम पड़ोसी है। G, D के दायें से दूसरे स्थान पर बैठा है। O, L के बायें से दूसरे स्थान पर बैठा है।

**Q20.** Who sits 4th left of D?

D के बायें से चौथे स्थान पर कौन बैठा है?

- (a) M
- (b) K
- (c) O
- (d) N
- (e) None of these \ इनमें से कोई नहीं

**Q21.** What is the position of G with respect to N?

N के सन्दर्भ में G का स्थान क्या है?

- (a) 3rd to the left \ बायें से तीसरा
- (b) 2nd to the right \ दायें से दूसरा
- (c) 3rd to the right \ दायें से तीसरा
- (d) Immediate left \ ठीक बायें
- (e) None of these \ इनमें से कोई नहीं

**Q22.** How many persons sit between O and M when counted to the left of M?

M के बायें से गिनने पर O और M के मध्य कितने व्यक्ति बैठे हैं?

- (a) More than four \ चार से अधिक
- (b) Three \ तीन
- (c) One \ एक
- (d) Two \ दो
- (e) None \ कोई नहीं

**Q23.** Which of the following sits 2nd to the right of K?

निम्नलिखित में से कौन K के दायें से दूसरे स्थान पर बैठा है?

- (a) G
- (b) O
- (c) M
- (d) L
- (e) None of these \ इनमें से कोई नहीं



**Q24.** Which of the following statement is true?

निम्नलिखित में से कौन सा कथन सत्य है?

**I.** N and O are immediate neighbors

**II.** D sits 2nd to the left of O

**III.** One person sits between L and G

**I.** N और O निकटतम पड़ोसी हैं

**II.** D, O के बायें से दूसरे स्थान पर बैठा है

**III.** L और G के मध्य एक व्यक्ति बैठा है

(a) Both II and III \ II और III दोनों

(b) Only I \ केवल I

(c) Only III \ केवल III

(d) Both I and II \ I और II दोनों

(e) None is true \ कोई भी सत्य नहीं है

**Q25.** If it is possible to make a meaningful word with the second, fourth, fifth, and eighth letters of the word 'ACHIEVED', then which of the following will be the third letter from the right end of that meaningful word? If no meaningful word can be made, give 'X' as the answer. If more than one meaningful word can be made, give 'Y' as the answer.

यदि शब्द 'ACHIEVED' के दूसरे, चौथे, पांचवें और आठवें अक्षरों से एक अर्थपूर्ण शब्द बनाना संभव है, तो उस अर्थपूर्ण शब्द के दायें छोर से तीसरा वर्ण निम्न में से कौन सा होगा? यदि कोई अर्थपूर्ण शब्द नहीं बनाया जा सकता है, तो उत्तर के रूप में 'X' दें। यदि एक से अधिक अर्थपूर्ण शब्द बनाए जा सकते हैं, तो उत्तर 'Y' दें।

(a) X

(b) I

(c) Y

(d) D

(e) C

**Directions (26-30):** Study the following questions and answer them by referring to the word sequence given below:

निम्नलिखित प्रश्नों का अध्ययन कीजिए और नीचे दिए गए शब्द अनुक्रम से संबंधित प्रश्नों के उत्तर दीजिए:

**LAB      FOX      SIP      BET      WET**

**Q26.** When first and third letter of each word is interchanged, then how many meaningful words will be formed?

जब प्रत्येक शब्द के पहले और तीसरे वर्ण को आपस में बदल दिया जाता है, तो कितने अर्थपूर्ण शब्द बनेंगे?

(a) Three \ तीन

(b) One \ एक

(c) Two \ दो

(d) Five \ पांच

(e) None \ कोई नहीं

**Q27.** If each Consonant is changed to its previous letter and each vowel is changed to its next letter according to the English alphabetical series, then how many words contain at least one vowel?

यदि अंग्रेजी वर्णमाला श्रृंखला के अनुसार प्रत्येक व्यंजन को उसके पिछले वर्ण से बदल दिया जाए और प्रत्येक स्वर को उसके अगले वर्ण से बदल दिया जाए, तो कितने शब्दों में कम से कम एक स्वर होगा?

- (a) None \कोई नहीं
- (b) More than three\तीन से अधिक
- (c) Two \दो
- (d) Three \तीन
- (e) None of these\इनमें से कोई नहीं

**Q28.** If words are arranged according to the alphabetical series (as in the English dictionary) from left to right, which word will be third from the right end?

यदि शब्दों को वर्णानुक्रम के अनुसार बायें से दायें (जैसा कि अंग्रेजी शब्दकोश में) व्यवस्थित किया जाता है, तो कौन सा शब्द दायें छोर से तीसरा होगा?

- (a) LAB
- (b) SIP
- (c) BET
- (d) WET
- (e) FOX

**Q29.** If each letter in each word is arranged according to the English alphabetical series from left to right, then how many meaningful words will be formed?

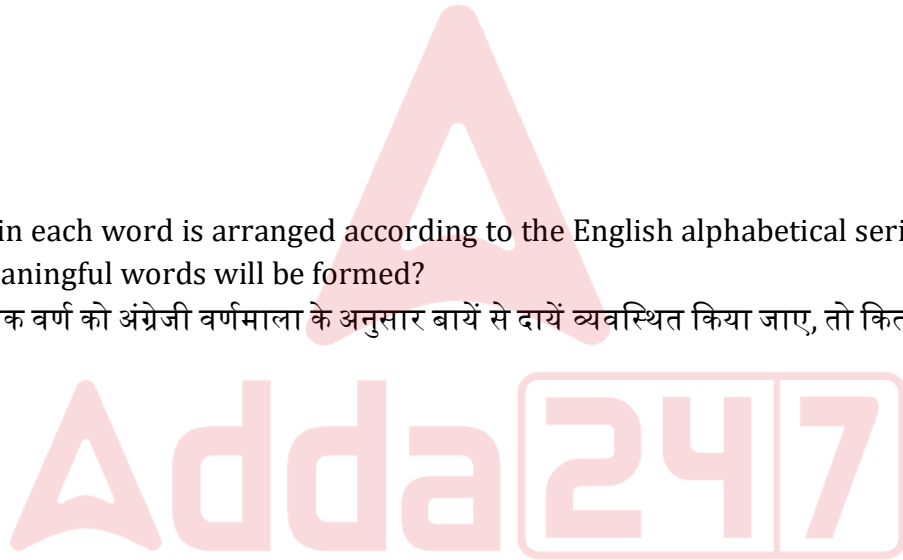
यदि प्रत्येक शब्द के प्रत्येक वर्ण को अंग्रेजी वर्णमाला के अनुसार बायें से दायें व्यवस्थित किया जाए, तो कितने अर्थपूर्ण शब्द बनेंगे?

- (a) Three \तीन
- (b) One \एक
- (c) Four\चार
- (d) Two\दो
- (e) None \कोई नहीं

**Q30.** How many letters between 1st letter of 3rd word from right end and 2nd letter of 2nd word from left end according to the English dictionary?

अंग्रेजी शब्दकोष के अनुसार दायें छोर से तीसरे शब्द के पहले वर्ण और बायें छोर से दूसरे शब्द के दूसरे वर्ण के बीच कितने वर्ण हैं?

- (a) Eight\आठ
- (b) More than eleven\ग्यारह से अधिक
- (c) Three\तीन
- (d) Four\चार
- (e) None of these\इनमें से कोई नहीं



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**Directions (31-34):** Study the following information carefully and answer the questions given below:

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

Seven persons A, B, C, D, E, F and G live in a building of 7 floors but not necessarily in the same order. The ground floor is numbered as 1<sup>st</sup> floor, just above floor is numbered as 2<sup>nd</sup> floor and so on till the topmost floor is numbered as 7<sup>th</sup> floor.

Less than three persons live above F. One floor gap between E and F who lives above E. G lives just above B who lives on even numbered floor. The number of floors above D is same as the number of floors below A. C lives below A.

सात व्यक्ति A, B, C, D, E, F और G एक 7 मंजिल की इमारत में रहते हैं लेकिन जरूरी नहीं कि इसी क्रम में हो। भूतल को पहली मंजिल के रूप में गिना जाता है, ठीक ऊपर की मंजिल दूसरी मंजिल के रूप में और इसी तरह सबसे ऊपरी मंजिल को संख्या 7वीं मंजिल के रूप में गिना जाता है।

F के ऊपर तीन से कम व्यक्ति रहते हैं। E और F, जो E के ऊपर रहता है, के बीच एक मंजिल का अंतर है। G, B, जो सम संख्या वाली मंजिल पर रहता है, के ठीक ऊपर रहता है। D के ऊपर मंजिलों की संख्या, A के नीचे मंजिलों की संख्या के समान है। C, A के नीचे रहता है।

**Q31.** How many persons live below G?

G के नीचे कितने व्यक्ति रहते हैं?

- (a) None\कोई नहीं
- (b) Two\दो
- (c) Six\छह
- (d) Four\चार
- (e) None of these\इनमें से कोई नहीं

**Q32.** Who lives on the 5th floor?

5वीं मंजिल पर कौन रहता है?

- (a) D
- (b) A
- (c) F
- (d) G
- (e) C

**Q33.** The number of persons live above B is same as the number of persons live below \_\_\_\_.

B के ऊपर रहने वाले व्यक्तियों की संख्या \_\_\_\_ के नीचे रहने वाले व्यक्तियों की संख्या के समान है।

- (a) E
- (b) A
- (c) F
- (d) C
- (e) None of these\इनमें से कोई नहीं

**Q34.** Which of the following statement is true?

निम्नलिखित में से कौन सा कथन सत्य है?

I. F does not live on even floor

II. E lives above D

III. G lives on the 3rd floor

I. F सम संख्या वाली मंजिल पर नहीं रहता है

II. E, D के ऊपर रहता है

III. G तीसरी मंजिल पर रहता है

(a) Only I\केवल I

(b) Only II\केवल II

(c) Both I and II\I और II दोनों

(d) Both II and III\II और III दोनों

(e) None is true \कोई भी सत्य नहीं है

**Q35.** If each vowel of the word "QUALITY" is changed to the next letter of the English alphabets and each consonant is changed to the previous letter of the English alphabet, and then the alphabets thus formed are arranged in alphabetical order from left to right, which of the following will be fourth from the right end?

यदि शब्द "QUALITY" के प्रत्येक स्वर को अंग्रेजी वर्णमाला के अगले वर्ण में बदल दिया जाता है और प्रत्येक व्यंजन को अंग्रेजी वर्णमाला के पिछले वर्ण में बदल दिया जाता है, और फिर इस प्रकार प्राप्त वर्णों को वर्णानुक्रम में बायें से दायें व्यवस्थित किया जाता है, निम्नलिखित में से कौन दायें छोर से चौथा होगा?

(a) K

(b) P

(c) V

(d) J

(e) None of these \इनमें से कोई नहीं

**Directions (36-39):** In each of the questions below, some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

नीचे दिए गए प्रत्येक प्रश्न में कुछ कथनों के बाद कुछ निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सामान्यतः ज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों का ध्यानपूर्वक अध्ययन कीजिये और सामान्यतः ज्ञात तथ्यों की उपेक्षा करते हुए निर्णय करें कि दिए गए कथनों में से कौन सा निष्कर्ष तार्किक रूप से दिए गए कथनों का अनुसरण करता है।

(a) If only conclusion I follows.\यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.\यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.\यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.\यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follow.\यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q36. Statements:** Only a few Grapes are Mango.

No Mango is Banana.

Only a few Banana are Papaya.

**Conclusions: I.** Some Mango are Papaya.

**II.** No Mango is Papaya

**कथन:** केवल कुछ अंगूर आम हैं।

कोई आम केला नहीं है।

केवल कुछ केले पपीते हैं।

**निष्कर्ष: I.** कुछ आम पपीता हैं।

**II.** कोई आम पपीता नहीं हैं।

**Q37. Statements:** Only a few City are Town.

All Town are Metro.

**Conclusions: I.** Some City are Metro.

**II.** All City being Town is a possibility.

**कथन:** केवल कुछ सिटी टाउन हैं।

सभी टाउन मेट्रो हैं।

**निष्कर्ष: I.** कुछ सिटी मेट्रो हैं।

**II.** सभी सिटी के टाउन होने की संभावना है।

**Q38. Statements:** Some Dolphin are Turtle.

All Turtle are Rabbit.

A few Owl are Rabbit.

**Conclusions: I.** All Dolphin are Owl.

**II.** Some Dolphin are not Owl.

**कथन:** कुछ डॉल्फिन कछुए हैं।

सभी कछुए खरगोश हैं।

कुछ उल्लू खरगोश हैं।

**निष्कर्ष: I.** सभी डॉल्फिन उल्लू हैं।

**II.** कुछ डॉल्फिन उल्लू नहीं हैं।

**Q39. Statements:** Only a few River are Mountain.

No Mountain is Concrete.

Some Concrete are not Bricks.

**Conclusions: I.** Some River are being Concrete is a possibility.

**II.** All Mountain can be river.

**कथन:** केवल कुछ नदियाँ पर्वत हैं।

कोई पर्वत कंक्रीट नहीं है।

कुछ कंक्रीट ईंट नहीं हैं।

**निष्कर्ष: I.** कुछ नदियों के कंक्रीट होने की संभावना है।

**II.** सभी पर्वत नदी हो सकते हैं।

**Q40.** Find the odd one out?

विषम चुनें?

- (a) CBF
- (b) KJM
- (c) POS
- (d) VUY
- (e) SRV

**Q41.** If  $y^2 - x^2 = 72$  and  $y - x = 4$ , then find the value of  $(x \times y)$ ?

यदि  $y^2 - x^2 = 72$  और  $y - x = 4$ , तो  $(x \times y)$  का मान ज्ञात कीजिए।

- (a) 33
- (b) 44
- (c) 55
- (d) 77
- (e) 66

**Q42.** The ratio of length to breadth of a rectangle is 7 : 3 and the perimeter of the rectangle is 40 cm. Find the area (in  $\text{cm}^2$ ) of rectangle?

एक आयत की लंबाई और चौड़ाई का अनुपात 7 : 3 है, और आयत का परिमाण 40 सेमी है। आयत का क्षेत्रफल (सेमी<sup>2</sup> में) ज्ञात कीजिए।

- (a) 96
- (b) 64
- (c) 21
- (d) 378
- (e) 84

**Q43.** A man invested Rs.1460 in each scheme A and B. If scheme A offers simple interest at 10% p.a. for five years and scheme B offers simple interest at 10% p.a. for eight years, then find difference between interest (in Rs.) received from both schemes?

एक व्यक्ति ने योजना A और B, प्रत्येक में 1460 रु. का निवेश किया। यदि योजना A, पांच वर्ष के लिए 10% की वार्षिक दर से साधारण ब्याज प्रदान करती है। और योजना B, आठ वर्षों के लिए 10% की वार्षिक दर से साधारण ब्याज प्रदान करती है। तो दोनों योजनाओं से प्राप्त ब्याज (रु. में) के मध्य अंतर ज्ञात कीजिए।

- (a) 438
- (b) 428
- (c) 408
- (d) 448
- (e) 418

**Q44.** A man purchased two articles at same cost price and he sold one article at 18% loss and second at 30% profit. If total profit earned is Rs.210, then find the cost price (in Rs.) of each article?

एक व्यक्ति ने दो वस्तु समान क्रय मूल्य पर खरीदी और उसने एक वस्तु को 18% हानि पर और दूसरी वस्तु को 30% लाभ पर बेचा। यदि कुल अर्जित लाभ 210 रु. है, तो प्रत्येक वस्तु का क्रय मूल्य (रु. में) ज्ञात कीजिए।

- (a) 1500
- (b) 2000
- (c) 2250
- (d) 1750
- (e) 1250

**Q45.** A man purchase three different articles A, B & C and cost prices of these articles is Rs.52, Rs.78 and Rs.108 respectively. If number of each type of article purchase by man is equal and man spends total of Rs.1190, then find the number of each type of article purchased by the man?

एक व्यक्ति तीन अलग-अलग वस्तुएँ A, B और C खरीदता है, तथा इन वस्तुओं का क्रय मूल्य क्रमशः 52 रु. , 78 रु. और 108 रु. है। यदि व्यक्ति द्वारा खरीदी गई प्रत्येक प्रकार की वस्तु की संख्या समान है और व्यक्ति कुल 1190 रु. खर्च करता है। तो व्यक्ति द्वारा खरीदी गई प्रत्येक प्रकार की वस्तु की संख्या ज्ञात कीजिए।

- (a) 8
- (b) 4
- (c) 6
- (d) 7
- (e) 5

**Q46.** The ratio of present age of A to that of B is 5 : 4 respectively. Four years hence, age of A will be three years more than age of B six years hence. Find the present age of B?

A की वर्तमान आयु का B की वर्तमान आयु से अनुपात क्रमशः 5:4 है। चार वर्ष बाद, A की आयु, B की छह वर्ष बाद की आयु से तीन वर्ष अधिक होगी। B की वर्तमान आयु ज्ञात कीजिए।

- (a) 12 years/ वर्ष
- (b) 20 years/ वर्ष
- (c) 16 years/ वर्ष
- (d) 24 years/ वर्ष
- (e) 28 years/ वर्ष

**Q47.** A vessel contains 120 liters mixture of milk and water in the ratio of 5 : 3. If 20 liters milk added in the vessel, then find the ratio of water to milk in resulting mixture?

एक बर्तन में 120 लीटर दूध और जल का मिश्रण 5:3 के अनुपात में है। यदि बर्तन में 20 लीटर दूध मिलाया जाता है, तो परिणामी मिश्रण में जल का दूध से अनुपात ज्ञात कीजिए।

- (a) 7 : 15
- (b) 11 : 19
- (c) 8 : 19
- (d) 9 : 19
- (e) 7 : 19

**Q48.** A car cover 160 km in five hours at the speed of x km/h and same distance cover by another car in 3 hour 20 minutes at the speed of y km/hr. Find the value of (x : y)?

एक कार x किमी/घंटा की गति से पांच घंटे में 160 किमी की दूरी तय करती है, और दूसरी कार y किमी/घंटा की गति से तीन घंटे 20 मिनट में समान दूरी तय करती है। (x : y) का मान ज्ञात कीजिए।

- (a) 1 : 3
- (b) 2 : 3
- (c) 3 : 4
- (d) 1 : 4
- (e) 6 : 7

**Q49.** A boat takes five hours to cover certain distance in upstream and takes two hours to cover the same distance in downstream. If the speed of the stream is 3 km/hr, then find the distance?

एक नाव धारा के प्रतिकूल एक निश्चित दूरी को तय करने में पांच घंटे का समय लेती है, तथा धारा के अनुकूल समान दूरी को तय करने में दो घंटे का समय लेती है। यदि धारा की गति 3 किमी/घंटा है, तो दूरी ज्ञात कीजिए।

- (a) 40 km / किमी
- (b) 30 km / किमी
- (c) 10 km / किमी
- (d) 20 km / किमी
- (e) 60 km / किमी

**Q50.** A is 40% more efficient than B. If B takes 6 days more than A to complete a work, then in how many days 'A' alone can complete the whole work?

A, B से 40% अधिक कुशल है। यदि B किसी कार्य को पूरा करने में A से 6 दिन अधिक लेता है, तो 'A' अकेला सम्पूर्ण कार्य को कितने दिनों में पूरा कर सकता है?

- (a) 10 days / दिन
- (b) 15 days / दिन
- (c) 21 days / दिन
- (d) 24 days / दिन
- (e) 12 days / दिन

**Direction / निर्देश (51-55):** What will come in the place of question (?) mark in following number series –  
निम्नलिखित संख्या श्रंखला में प्रश्न चिन्ह (?) के स्थान पर क्या आयेगा –

**Q51.** 2, 4, 7, 12, 19, ?

- (a) 32
- (b) 30
- (c) 36
- (d) 34
- (e) 40

**Q52.** 67, 98, 129, 160, ?, 222

- (a) 193
- (b) 195
- (c) 191
- (d) 197
- (e) 199

**Q53.** 10, 18, 45, 109, ?, 450

- (a) 231
- (b) 232
- (c) 234
- (d) 236
- (e) 239



Q54. 12, 16, 25, 41, ?, 102

- (a) 66
- (b) 64
- (c) 62
- (d) 68
- (e) 72

Q55. 15, 20, 25, 30, ?, 40

- (a) 32
- (b) 35
- (c) 36
- (d) 45
- (e) 48

**Direction (56-60):** Table given below shows total three types (Sunflowers, lilies and Roses) of flowers used by an event management company in three different months. Read the data carefully and answer the questions.

**निर्देश:** नीचे दी गई तालिका तीन अलग-अलग महीनों में एक इवेंट मैनेजमेंट कंपनी द्वारा उपयोग किए गए फूलों के कुल तीन प्रकार (सूरजमुखी, लिली और गुलाब) दिखाती है। डेटा को ध्यान से पढ़ें और प्रश्नों के उत्तर दीजिए।

Flowers/ फूल	January/जनवरी	February/ फरवरी	March/ मार्च
Sunflowers/ सूरजमुखी	68	112	96
Lilies/ लिली	84	64	80
Roses/ गुलाब	72	88	118

Q56. Total number of sunflowers used in January & March together are what percentage more than total number of roses used in January & February together?

जनवरी और मार्च में मिलाकर उपयोग किए गए सूरजमुखी की कुल संख्या, जनवरी और फरवरी में मिलाकर उपयोग किए गए गुलाबों की कुल संख्या से कितने प्रतिशत अधिक है?

- (a) 2.5%
- (b) 5%
- (c) 1.5%
- (d) 4%
- (e) 3%

Q57. Find the average number of all three types of flowers used by event management company in March?

मार्च में इवेंट मैनेजमेंट कंपनी द्वारा उपयोग किए जाने वाले सभी तीन प्रकार के फूलों की औसत संख्या ज्ञात कीजिए?

- (a) 91
- (b) 90
- (c) 97
- (d) 93
- (e) 98

**Q58.** Find the ratio of total number of roses used in January to total number of lilies used in January?

जनवरी में उपयोग किए गए गुलाबों की कुल संख्या का जनवरी में उपयोग किए गए लिली की कुल संख्या से अनुपात ज्ञात कीजिए।

- (a) 4 : 3
- (b) 6 : 5
- (c) 6 : 7
- (d) 9 : 4
- (e) 7 : 6

**Q59.** Total number of roses used in March is how much more than total number sunflowers used in January?

मार्च में उपयोग किए गए गुलाबों की कुल संख्या जनवरी में उपयोग किए गए सूरजमुखी की कुल संख्या से कितनी अधिक है?

- (a) 90
- (b) 80
- (c) 50
- (d) 40
- (e) 60

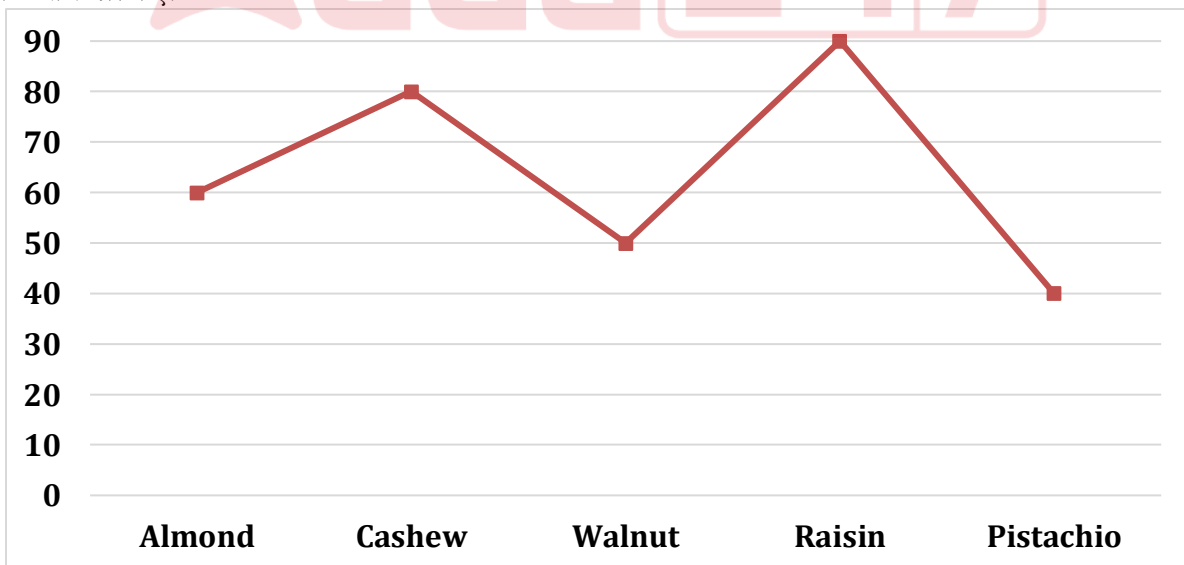
**Q60.** Find the total number of sunflowers used in all the given three months?

दिए गए सभी तीन महीनों में उपयोग किए गए सूरजमुखी की कुल संख्या ज्ञात कीजिए।

- (a) 276
- (b) 274
- (c) 268
- (d) 272
- (e) 264

**Direction (61–65):** Line graph shows total quantity (in kg) of five different dry fruits sold by a shop. Read the data carefully and answer the questions.

**निर्देश:** बार ग्राफ एक दुकान द्वारा बेचे गए पांच अलग-अलग सूखे मेवों की कुल मात्रा (किलो में) दिखाता है। डेटा को ध्यान से पढ़ें और प्रश्नों के उत्तर दीजिए।



**Q61.** If the ratio of dry to wet Walnut & Pistachio sold by shop is 3 : 2 and 5 : 3 respectively, then find difference (in kg.) between total dry Walnut & Pistachio sold by shop?

यदि दुकान द्वारा बेचे गए सूखे से गीले अखरोट और पिस्ता का अनुपात क्रमशः 3:2 और 5:3 है, तो दुकान द्वारा बेचे गए सूखे अखरोट और पिस्ता के मध्य अंतर (किलो में) ज्ञात कीजिए।

- (a) 6
- (b) 5
- (c) 8
- (d) 12
- (e) 4

**Q62.** Find the ratio of total Almond to total Raisin sold by the shop?

दुकान द्वारा बेचे गए कुल बादाम का कुल किशमिश से अनुपात ज्ञात कीजिए।

- (a) 3 : 5
- (b) 2 : 5
- (c) 1 : 3
- (d) 2 : 3
- (e) 1 : 2

**Q63.** If total Apricot sold by shop is 50% more than total Cashew sold by the shop and total dry Apricot sold by shop is 40% less than total wet Apricot sold by shop, then find total (in kg.) dry Apricot sold by the shop?

यदि दुकान द्वारा बेची गई कुल खुबानी दुकान द्वारा बेचे गए कुल काजू से 50% अधिक है, तथा दुकान द्वारा बेची गई कुल सूखी खुबानी दुकान द्वारा बेची गई कुल गीली खुबानी से 40% कम है, तो दुकान द्वारा बेची गई कुल (किलो में) सूखी खुबानी ज्ञात कीजिए।

- (a) 45
- (b) 36
- (c) 40
- (d) 30
- (e) 60

**Q64.** Total Almonds & Pistachio sold by shop is what percent more than total Cashew sold by the shop?

दुकान द्वारा बेचे गए कुल बादाम और पिस्ता, दुकान द्वारा बेचे गए कुल काजू से कितने प्रतिशत अधिक है?

- (a) 20%
- (b) 25%
- (c) 24%
- (d) 30%
- (e) 40%

**Q65.** Find the difference between total Walnut & Raisin sold by the shop and total Cashew & Pistachio sold by the shop?

दुकान द्वारा बेचे गए कुल अखरोट और किशमिश तथा दुकान द्वारा बेचे गए कुल काजू और पिस्ता के मध्य अंतर ज्ञात कीजिए?

- (a) 40 kg / किलो
- (b) 5 kg / किलो
- (c) 30 kg / किलो
- (d) 20 kg / किलो
- (e) 10 kg / किलो

**Direction (66 – 80):** What value should come in place of (?) in the following questions?

निम्नलिखित प्रश्नों में (?) के स्थान पर क्या मान आना चाहिए?

**Q66.**  $\frac{510}{?} = \sqrt{324} + \sqrt{256}$

- (a) 20
- (b) 5
- (c) 10
- (d) 15
- (e) 25

**Q67.**  $3 \times ?^2 = (5)^2 + (7)^2 + (17)^2$

- (a) 12
- (b) 13
- (c) 10
- (d) 11
- (e) 15

**Q68.**  $?^2 = 40\% \text{ of } 420 + 44\% \text{ of } 200$

- (a) 24
- (b) 12
- (c) 8
- (d) 16
- (e) 416

**Q69.**  $2\frac{1}{3} \text{ of } 4\frac{2}{7} \text{ of } 3\frac{1}{3} \text{ of } 81 = ?$

- (a) 2900
- (b) 2500
- (c) 2700
- (d) 2300
- (e) 2400

**Q70.**  $\sqrt{256 \times 49} + (16)^2 - \sqrt[3]{343} = (?)^2$

- (a) 21
- (b) 18
- (c) 14
- (d) 22
- (e) 19

**Q71.**  $\sqrt{256} \times \sqrt{169} + 3600 \div 12 = 800 - ?$

- (a) 312
- (b) 280
- (c) 292
- (d) 324
- (e) 296

**Q72.**  $37.5 \times 14 + 800 - (26)^2 + 136 = ?$

- (a) 785
- (b) 800
- (c) 810
- (d) 825
- (e) 765

**Q73.**  $\sqrt{12.25} \times 18 - (6)^2 - \sqrt{4} = (?)^2$

- (a) 7
- (b) 6
- (c) 5
- (d) 4
- (e) 3

**Q74.**  $(1350 + 1625) \div (625 + 565) = ?$

- (a) 1.5
- (b) 2.5
- (c) 1
- (d) 2.25
- (e) 2.75

**Q75.**  $\sqrt{625} \div \sqrt[3]{64} \times 6 = ?\% \text{ of } 150$

- (a) 5
- (b) 25
- (c) 15
- (d) 20
- (e) 22.5

**Q76.**  $15 \times 26 + 310 - (15)^2 = 20\%$  of ?

- (a) 2375
- (b) 1825
- (c) 2525
- (d) 2150
- (e) 1950

**Q77.**  $3^2 \times \sqrt{625} + 35^2 + 150 = (?)^2$

- (a) 50
- (b) 45
- (c) 35
- (d) 30
- (e) 40

**Q78.**  $6\frac{3}{4} + 3\frac{6}{5} - 7\frac{7}{8} = ? + 1\frac{7}{10}$

- (a)  $1\frac{3}{8}$
- (b)  $\frac{9}{10}$
- (c)  $\frac{3}{5}$
- (d)  $\frac{5}{8}$
- (e)  $\frac{4}{7}$

**Q79.**  $\sqrt{80\% \text{ of } (? + 60)} = \frac{250}{3}\%$  of 12

- (a) 45
- (b) 35
- (c) 65
- (d) 55
- (e) 25

**Q80.**  $250\% \text{ of } 300 - 55 \times 40 + 2700 = ?$

- (a) 1050
- (b) 1250
- (c) 1150
- (d) 1350
- (e) 1450



**Solutions (1-5):**

- S1. Ans.(a)
- S2. Ans.(c)
- S3. Ans.(d)
- S4. Ans.(a)
- S5. Ans.(e)

**Solutions (6-10):**

- S6. Ans.(c)
- S7. Ans.(a)
- S8. Ans.(c)
- S9. Ans.(b)
- S10. Ans.(b)

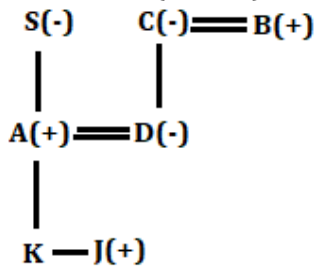
**Solutions (11-15):**

Month	Date	Persons
September	11	B
	22	Q
October	11	R
	22	D
November	11	F
	22	T

- S11. Ans.(d)
- S12. Ans.(b)
- S13. Ans.(a)
- S14. Ans.(d)
- S15. Ans.(d)

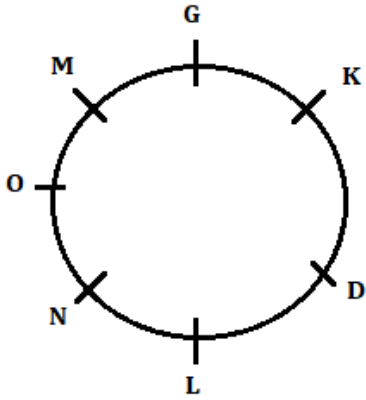


**Solutions (16-18):**



- S16. Ans.(c)
- S17. Ans.(d)
- S18. Ans.(e)
  
- S19. Ans.(d)

**Solutions (20-24):**



**S20. Ans.(a)**

**S21. Ans.(a)**

**S22. Ans.(a)**

**S23. Ans.(c)**

**S24. Ans.(b)**

**S25. Ans.(b)**

**Solutions (26-30):**

**S26. Ans.(e)**

**S27. Ans.(b)**

**S28. Ans.(a)**

**S29. Ans.(d)**

**S30. Ans.(c)**

**Solutions (31-34):**

Floor	Persons
7	A
6	F
5	C
4	E
3	G
2	B
1	D

**S31. Ans.(b)**

**S32. Ans.(e)**

**S33. Ans.(c)**

**S34. Ans.(d)**

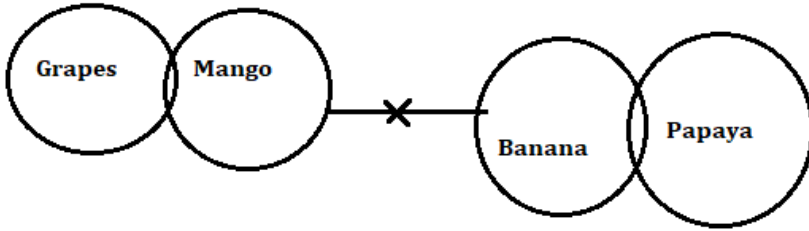
**S35. Ans.(b)**



**Solutions (36-39):**

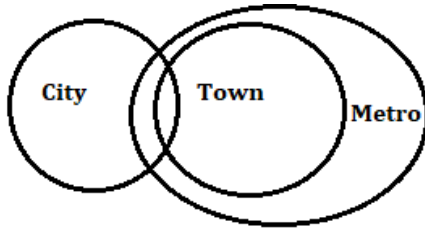
**S36. Ans.(c)**

**Sol.**



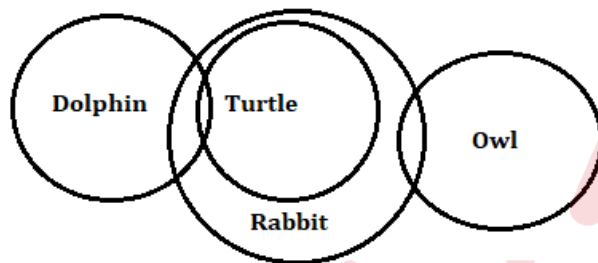
**S37. Ans.(a)**

**Sol.**



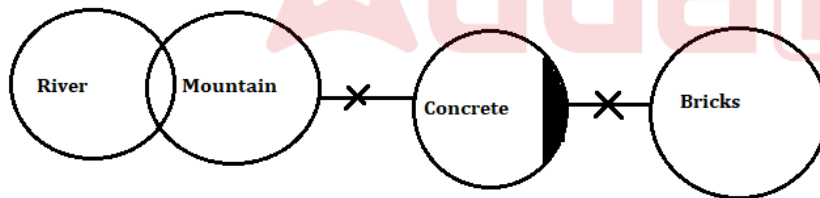
**S38. Ans.(c)**

**Sol.**



**S39. Ans.(e)**

**Sol.**



**S40. Ans.(b)**

**S41. Ans.(d)**

**Sol.**  $y^2 - x^2 = 72$  ----- (i)

$y - x = 4$  ----- (ii)

we know  $a^2 - b^2 = (a + b)(a - b)$

So,  $4(y + x) = 72$

$y + x = 18$  ----- (iii)

from (ii) & (iii) we get -

$y = 11$  &  $x = 7$

so,  $(x \times y) = 11 \times 7 = 77$

**S42. Ans.(e)**

**Sol.** Let length and breadth of the rectangle is  $7x$  and  $3x$  respectively.

ATQ -

$$2(7x + 3x) = 40$$

$$10x = 20$$

$$x = 2 \text{ cm}$$

$$\text{Required area} = 14 \times 6 = 84 \text{ cm}^2$$

**S43. Ans.(a)**

**Sol.** Required difference =  $\frac{1460 \times 8 \times 10}{100} - \frac{1460 \times 5 \times 10}{100} = 1168 - 730 = \text{Rs.}438$

**S44. Ans.(d)**

**Sol.** Let cost price of each article be Rs.  $100x$

$$\text{So, } 100x \times \frac{30}{100} - 100x \times \frac{18}{100} = 210$$

$$12x = 210$$

$$x = 17.5 \text{ Rs.}$$

So, cost price of each article = 1750 Rs.

**S45. Ans.(e)**

**Sol.** Let each type of articles purchased by man be 'n'

ATQ -

$$52 \times n + 78 \times n + 108 \times n = 1190$$

$$n = 5$$

**S46. Ans.(b)**

**Sol.** Let present age of A and B be  $5x$  and  $4x$  respectively.

ATQ -

$$(5x + 4) - (4x + 6) = 3$$

$$x = 5$$

Present age of B = 20 years

**S47. Ans.(d)**

**Sol.** Let the quantity of milk and water in the mixture be  $5x$  and  $3x$  respectively.

ATQ-

$$(120 \times \frac{3x}{8x}) : (120 \times \frac{5x}{8x} + 20) = 9 : 19$$

**S48. Ans.(b)**

**Sol.**  $x = \frac{160}{5} = 32 \text{ km/hr}$

$$y = 160 \times \frac{3}{10} = 48 \text{ km/hr}$$

Required value of  $(x : y) = 32 : 48 = 2 : 3$

**S49. Ans.(d)****Sol.** Let speed of boat in still water be  $x$  kmph

And distance be 'D' km

ATQ

$$\frac{D}{x-3} = 5$$

$$D = 5(x - 3) \text{ --- (i)}$$

And,

$$\frac{D}{x+3} = 2$$

$$D = 2(x + 3) \text{ --- (ii)}$$

From (i) and (ii)

$$5(x - 3) = 2(x + 3)$$

$$5x - 15 = 2x + 6$$

$$3x = 21 \Rightarrow x = 7 \text{ km/hr}$$

$$\text{So, required distance} = 5 \times (7 - 3) = 20 \text{ km}$$

**S50. Ans.(b)****Sol.** Ratio of efficiency of A to B = 7 : 5

So ratio of time required to complete the work = 5 : 7

Now ATQ,

$$(7 - 5) \rightarrow 6 \text{ days}$$

$$2 \rightarrow 6$$

$$5 \rightarrow \frac{6}{2} \times 5 = 15 \text{ days}$$

So, 'A' can complete the work alone in 15 days

**S51. Ans.(b)****Sol.** Pattern of series -

$$2 + 2 = 4$$

$$4 + 3 = 7$$

$$7 + 5 = 12$$

$$12 + 7 = 19$$

$$?= 19 + 11 = 30$$

**S52. Ans.(c)****Sol.** Pattern of series -

$$67 + 31 = 98$$

$$98 + 31 = 129$$

$$129 + 31 = 160$$

$$?= 160 + 31 = 191$$

$$191 + 31 = 222$$

**S53. Ans.(c)****Sol.** Pattern of series -

$$10 + 2^3 = 18$$

$$18 + 3^3 = 45$$

$$45 + 4^3 = 109$$

$$? = 109 + 5^3 = 234$$

$$234 + 6^3 = 450$$

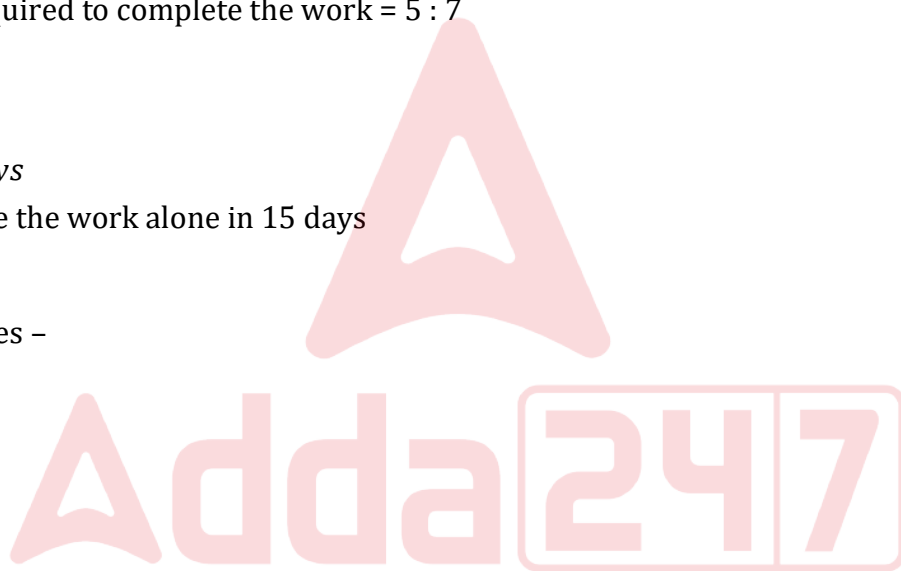
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**Complete Prelims + Mains**

**Target Batch**

12:30 PM to 3:30 PM      5 PM to 7:30 PM



**S54. Ans.(a)**

**Sol.** Pattern of series –

$$12 + 2^2 = 16$$

$$16 + 3^2 = 25$$

$$25 + 4^2 = 41$$

$$?= 41 + 5^2 = \mathbf{66}$$

$$66 + 6^2 = 102$$

**S55. Ans.(b)**

**Sol.** Pattern of series –

$$15 + 5 = 20$$

$$20 + 5 = 25$$

$$25 + 5 = 30$$

$$?= 30 + 5 = \mathbf{35}$$

$$35 + 5 = 40$$

**S56. Ans.(a)**

**Sol.** Total number of sunflowers used in January & March together =  $68 + 96 = 164$

Total number of roses used in January & February together =  $72 + 88 = 160$

$$\text{Required percentage} = \frac{164-160}{160} \times 100 = 2.5\%$$

**S57. Ans.(e)**

**Sol.** Required average =  $\frac{96+80+118}{3} = 98$

**S58. Ans.(c)**

**Sol.** Required ratio =  $72 : 84 = 6 : 7$

**S59. Ans.(c)**

**Sol.** Required difference =  $(118 - 68) = 50$

**S60. Ans.(a)**

**Sol.** Required sum =  $(68+112+96) = 276$

**S61. Ans.(b)**

**Sol.** Required difference =  $50 \times \frac{3}{5} - 40 \times \frac{5}{8} = 30 - 25 = 5 \text{ kg}$

**S62. Ans.(d)**

**Sol.** Required ratio =  $60 : 90 = 2 : 3$

**S63. Ans.(a)**

**Sol.** Total dry Apricot sold by shop =  $80 \times \frac{150}{100} \times \frac{60}{160} = 45 \text{ kg}$

**S64. Ans.(b)**

**Sol.** Required percentage =  $\frac{(60+40)-80}{80} \times 100 = 25\%$

**S65. Ans.(d)**

**Sol.** Required difference =  $(50 + 90) - (80 + 40) = 20$  kg

**S66. Ans.(d)**

**Sol.**  $\frac{510}{?} = 18 + 16$

$? = \frac{510}{34} = 15$

**S67. Ans.(d)**

**Sol.**  $3 \times ?^2 = 25 + 49 + 289$

$?^2 = \frac{363}{3}$

$?^2 = 121$

$? = 11$

**S68. Ans.(d)**

**Sol.**  $?^2 = \frac{40}{100} \times 420 + \frac{44}{100} \times 200$

$?^2 = 168 + 88$

$?^2 = 256$

$? = 16$

**S69. Ans.(c)**

**Sol.**  $? = \frac{7}{3} \times \frac{30}{7} \times \frac{10}{3} \times 81$

$? = 2700$

**S70. Ans.(e)**

**Sol.**  $(?)^2 = 16 \times 7 + 256 - 7$

$(?)^2 = 361$

$? = 19$

**S71. Ans.(c)**

**Sol.**  $\sqrt{256} \times \sqrt{169} + 3600 \div 12 = 800 - ?$

$16 \times 13 + 300 = 800 - ?$

$208 + 300 = 800 - ?$

$? = 800 - 508$

$? = 292$

**S72. Ans.(a)**

**Sol.**  $? = 37.5 \times 14 + 800 - (26)^2 + 136$

$? = 525 + 800 - 676 + 136$

$? = 1325 - 540$

$? = 785$



**S73. Ans.(c)**

**Sol.**  $3.5 \times 18 - 38 = (?)^2$

$63 - 38 = (?)^2$

$25 = (?)^2$

$? = 5$

**S74. Ans.(b)**

**Sol.**  $? = \frac{2975}{1190}$

$? = 2.5$

**S75. Ans.(b)**

**Sol.**  $\frac{25 \div 4 \times 6 \times 2}{3} = ?$

$? = 25$

**S76. Ans.(a)**

**Sol.**  $(390 + 310 - 225) \times 5 = ?$

$(700 - 225) \times 5 = ?$

$475 \times 5 = ?$

$? = 2375$

**S77. Ans.(e)**

**Sol.**  $9 \times 25 + 1225 + 150 = (?)^2$

$225 + 1225 + 150 = (?)^2$

$? = \sqrt{1600}$

$? = 40$

**S78. Ans.(a)**

**Sol.**  $\frac{27}{4} + \frac{21}{5} - \frac{63}{8} = ? + \frac{17}{10}$

$? = \frac{27}{4} - \frac{63}{8} + \frac{21}{5} - \frac{17}{10}$

$? = 1\frac{3}{8}$

**S79. Ans.(c)**

**Sol.**  $\sqrt{\frac{4}{5} \text{ of } (? + 60)} = 10$

$\frac{4}{5} \text{ of } (? + 60) = 100$

$? + 60 = 125$

$? = 65$


**S80. Ans.(b)**

**Sol.**  $750 - 2200 + 2700 = ?$

$? = 1250$



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## IBPS RRB PO Prelims Previous Year Questions 2021

**Directions (1-5):** Study the following information carefully and answer the questions given below:

Ten persons sit around a circular table; all of them are face inside. Three persons sit between C and F. G sits second to the left of F. Two persons sit between G and A who is not an immediate neighbor of C. L sits immediate left of E, neither of them are immediate neighbor of A. B sits second to the right of K. D sits third to the left of C who is not an immediate neighbor of H.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

दस व्यक्ति एक वृत्ताकार मेज के चारों ओर बैठे हैं; वे सभी अंदर की ओर उन्मुख हैं। C और F के बीच तीन व्यक्ति बैठे हैं। G, F के बाएं से दूसरे स्थान पर बैठा है। G और A के बीच दो व्यक्ति बैठे हैं, जो C का निकटतम पड़ोसी नहीं है। L, E के ठीक बाएं बैठा है, उनमें से कोई भी A का निकटतम पड़ोसी नहीं है। B, K के दायें से दूसरे स्थान पर बैठा है। D, C के बायें से तीसरे स्थान पर बैठा है, जो H का निकटतम पड़ोसी नहीं है।

**Q1.** How many persons sit between K and D, when counted from left of K?

K के बाएं से गिनने पर, K और D के मध्य कितने व्यक्ति बैठे हैं?

(a) Four

चार

(b) Three

तीन

(c) Two

दो

(d) One

एक

(e) None of these

इनमें से कोई नहीं

**Q2.** Who among the following sits third to the right of H?

निम्नलिखित में से कौन H के दाएं से तीसरे स्थान पर बैठा है?

(a) B

(b) C

(c) E

(d) K

(e) None of these

इनमें से कोई नहीं

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**Q3.** Which of the following statement is not true about B?

निम्नलिखित में से कौन सा कथन B के बारे में सत्य नहीं है?

(a) B sits second to the left of A

B A के बाएं से दूसरे स्थान पर बैठा है

(b) B is an immediate neighbor of F

B F का निकटतम पड़ोसी है

(c) The one who sits third to the right of B is an immediate neighbor of D

B के दाएं से तीसरे स्थान पर बैठा व्यक्ति D का निकटतम पड़ोसी है

(d) B is an immediate neighbor of the one who sits third to the left of E

B उस व्यक्ति का निकटतम पड़ोसी है जो E के बाएं से तीसरे स्थान पर बैठा है

(e) All are true

सभी सत्य है

**Q4.** Four of the following five pairs are alike in a certain way so form a group, which of the following does not belong to that group?

निम्नलिखित पांच युग्म में से चार एक निश्चित तरीके से समान हैं इसलिए एक समूह बनाते हैं, निम्नलिखित में से कौन उस समूह से संबंधित नहीं है?

(a) L, C

(b) B, A

(c) D, E

(d) H, L

(e) F, G

**Q5.** Who among the following persons sit second to the left of C?

निम्नलिखित में से कौन-सा व्यक्ति C के बाएं से दूसरे स्थान पर बैठा है?

(a) E

(b) L

(c) G

(d) B

(e) None of these

इनमें से कोई नहीं

**Directions (6-9):** In this question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer.

इस प्रश्न में कथनों में विभिन्न तत्वों के बीच संबंध को दर्शाया गया है। कथनों के बाद निष्कर्ष निकाले गये हैं। दिए गए कथन के आधार पर निष्कर्षों का अध्ययन कीजिए और उचित उत्तर का चयन कीजिए।

**Q6. Statements/कथन:**  $X < W < O = S \geq T < U > R \geq V$

**Conclusions/निष्कर्ष:**

I.  $S > V$

II.  $S = V$

(a) Only conclusion I is true

(b) Only conclusion II is true

(c) Either conclusion I or II is true

(d) Both conclusions I and II are true

(e) Neither conclusion I nor II is true



- (a) केवल निष्कर्ष I सत्य है
- (b) केवल निष्कर्ष II सत्य है
- (c) या तो निष्कर्ष I या II सत्य है
- (d) निष्कर्ष I और II दोनों सत्य हैं
- (e) न तो निष्कर्ष I और न ही II सत्य है

**Q7. Statements/कथन:**  $A=E<F<G>L=M>H<B <K$

**Conclusions/निष्कर्ष:**

**I.**  $M>E$

**II.**  $A\geq K$

- (a) Only conclusion I is true
- (b) Only conclusion II is true
- (c) Either conclusion I or II is true
- (d) Both conclusions I and II are true
- (e) Neither conclusion I nor II is true
- (a) केवल निष्कर्ष I सत्य है
- (b) केवल निष्कर्ष II सत्य है
- (c) या तो निष्कर्ष I या II सत्य है
- (d) निष्कर्ष I और II दोनों सत्य हैं
- (e) न तो निष्कर्ष I और न ही II सत्य है

**Q8. Statements/कथन:**  $B<A=C<D<E >K=M>F$

**Conclusions/निष्कर्ष:**

**I.**  $B<E$

**II.**  $A>M$

- (a) Only conclusion I is true
- (b) Only conclusion II is true
- (c) Either conclusion I or II is true
- (d) Both conclusions I and II are true
- (e) Neither conclusion I nor II is true
- (a) केवल निष्कर्ष I सत्य है
- (b) केवल निष्कर्ष II सत्य है
- (c) या तो निष्कर्ष I या II सत्य है
- (d) निष्कर्ष I और II दोनों सत्य हैं
- (e) न तो निष्कर्ष I और न ही II सत्य है

**Q9. Statements/कथन:**  $H \leq G = B < E \leq K > F \geq M > N = O$

**Conclusions/निष्कर्ष:**

I.  $H < E$

II.  $O < K$

- (a) Only conclusion I is true  
(b) Only conclusion II is true  
(c) Either conclusion I or II is true  
(d) Both conclusions I and II are true  
(e) Neither conclusion I nor II is true
- (a) केवल निष्कर्ष I सत्य है  
(b) केवल निष्कर्ष II सत्य है  
(c) या तो निष्कर्ष I या II सत्य है  
(d) निष्कर्ष I और II दोनों सत्य हैं  
(e) न तो निष्कर्ष I और न ही II सत्य है

**Q10.** If in the word 'SNITCHED' vowels are replaced its previous letter and consonant are replaced with its next letter according to English alphabetical series, then how many letters are appeared twice in the new arrangement?

यदि शब्द 'SNITCHED' में, अंग्रेजी वर्णमाला श्रृंखला के अनुसार इसके स्वरों को इसके पिछले अक्षर से बदल दिया जाता है और व्यंजन को इसके अगले अक्षर से बदल दिया जाता है, तो नई व्यवस्था में कितने अक्षर दो बार आयेंगे?

- (a) One  
एक  
(b) Two  
दो  
(c) Three  
तीन  
(d) None  
कोई नहीं  
(e) More than three  
तीन से अधिक

**Directions (11-13):** Study the following information carefully and answer the questions given below.

Six persons P, Q, R, S, T and U are of different weights. The 4<sup>th</sup> heaviest person weight is 64kg. Q is lighter than only T. Two persons in between R and U, whose weight is 51kg. S is not heavier than P.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

छह व्यक्ति P, Q, R, S, T और U अलग-अलग भार के हैं। चौथे सबसे भारी व्यक्ति का भार 64 किग्रा है। Q, केवल T से केवल हल्का है। R और U के मध्य दो व्यक्ति है, जिसका भार 51 किग्रा है। S, P से भारी नहीं है।

**Q11.** How many persons are lighter than R?

कितने व्यक्ति R से हल्के हैं?

- (a) Three  
तीन  
(b) Four  
चार  
(c) Two  
दो  
(d) None  
कोई नहीं  
(e) One  
एक

**Q12.** If Q is 10kg heavier than P then, what is the difference between Q's and U's weight?

यदि Q, P से 10 किग्रा भारी है, तो Q और U के भार में कितना अंतर है?

- (a) 32kg  
32 किग्रा
- (b) 21kg  
21 किग्रा
- (c) 23kg  
23 किग्रा
- (d) 22kg  
22 किग्रा
- (e) 31kg  
31 किग्रा

**Q13.** Who among the following person is just heavier than the one who is 2<sup>nd</sup> lightest?

निम्नलिखित में से कौन दूसरे सबसे हल्के व्यक्ति से ठीक भारी है?

- (a) S
- (b) P
- (c) R
- (d) T
- (e) Q

**Q14.** Find the odd one out?

विषम का चयन कीजिए।

- (a) AZ
- (b) DW
- (c) GT
- (d) MN
- (e) JP

**Directions (15-18):** Study the following information carefully and answer the questions given below:

Nine persons are selected in three different department of a company i.e Marketing, HR and Finance. At least two but not more than four persons are selected in the same department.

U selects only with S, but not in marketing department. V and Q are selecting in the same department but not with R. T selects in the marketing department. W and X select in the same department. R neither selects in marketing not HR. P does not select in the same department as W. X selects neither in HR department nor with P.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए:

एक कंपनी के तीन अलग-अलग विभागों अर्थात मार्केटिंग, एचआर और फाइनेंस में नौ व्यक्तियों का चयन किया जा रहा है। एक ही विभाग में कम से कम दो लेकिन चार से अधिक व्यक्तियों चयन नहीं किया जा रहा है।

U केवल S के साथ चयनित होता है, लेकिन मार्केटिंग विभाग में नहीं। V और Q का एक ही विभाग में चयन किया जाता है लेकिन R के साथ नहीं। T का चयन मार्केटिंग विभाग में होता है। W और X का एक ही विभाग में चयन होता है। R का न तो मार्केटिंग में चयन होता है न ही एचआर में। P का चयन, W के समान विभाग में नहीं होता है। X का न तो एचआर विभाग में और न ही P के साथ चयन होता है।

**Q15.** Who among the following is selected in the same department as X?

निम्नलिखित में से किसका X के समान विभाग में चयन होता है?

- (a) P
- (b) Q
- (c) V
- (d) R
- (e) U

**Q16.** Which of the following statement is true about P?

निम्नलिखित में से कौन सा कथन P के बारे में सत्य है?

- (a) P selects with R  
P का चयन R के साथ होता है
- (c) P Select in Finance  
(d) P का चयन फाइनेंस में होता है
- (c) P Selects in Marketing  
P का चयन मार्केटिंग में होता है
- (d) P selects with U  
P का चयन U के साथ होता है
- (e) Both (b) and (c)  
दोनों (b) और (d)

**Q17.** Four of the following five pairs are alike in a certain way so form a group, which of the following does not belong to that group?

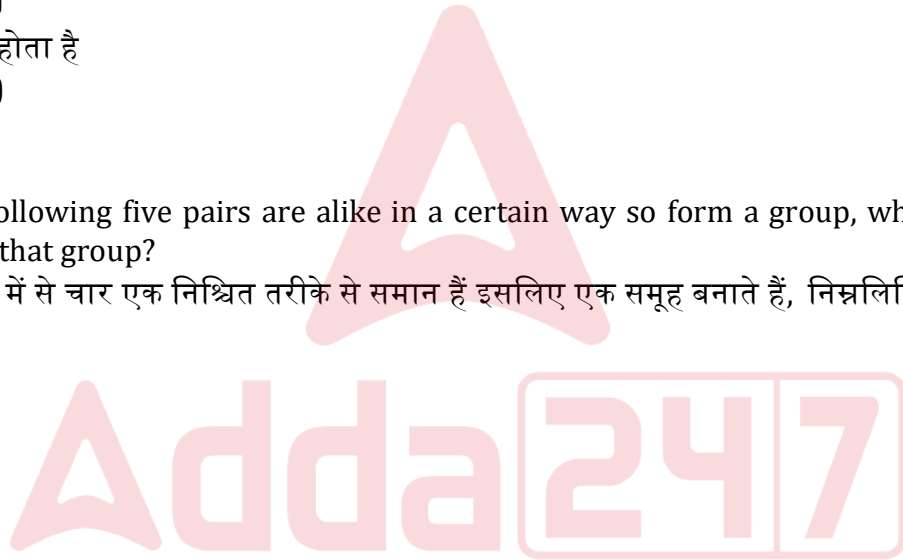
निम्नलिखित पांच युग्म में से चार एक निश्चित तरीके से समान हैं इसलिए एक समूह बनाते हैं, निम्नलिखित में से कौन उस समूह से संबंधित नहीं है?

- (a) P-X
- (b) Q-T
- (c) R-S
- (d) U-V
- (e) W-T

**Q18.** How many persons are selected in marketing department?

मार्केटिंग विभाग में कितने व्यक्तियों का चयन किया जाता है?

- (a) Two  
दो
- (b) Four  
चार
- (c) Three  
तीन
- (d) Cannot be determined  
निर्धारित नहीं किया जा सकता
- (e) Same number of persons selected in finance department  
फाइनेंस विभाग में चयनित व्यक्तियों के समान संख्या



**Q19.** How many pairs of digits are there in the number '96825173', each of which have as many digits between them (both forward and backward directions) in the number as they have between them in the number series?

संख्या '96825173' में अंकों के ऐसे कितने युग्म हैं, जिनमें प्रत्येक के मध्य संख्या में (आगे और पीछे दोनों दिशाओं में) उतने ही अंक हैं जितने संख्या श्रृंखला में उनके मध्य होते हैं?

(a) One

एक

(b) Two

दो

(c) Three

तीन

(d) Four

चार

(f) None of these

इनमें से कोई नहीं

**Directions (20-24):** Study the following information carefully and answer the questions given below.

Ten persons M, N, O, P, Q, R, S, T, U and V go to the exam on different dates 11 and 16 of five different months January to May but not necessarily in the same order.

O goes to the exam on 16<sup>th</sup> February. More than four persons go to the exam between O and S. The number of persons go for the exam before S is the same as the persons go for the exam after P. V goes just before Q in the same month, which has an even number of days. No one goes between P and M. T goes just before N. U goes after R.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिये और नीचे दिए गए प्रश्नों के उत्तर दीजिये।

दस व्यक्ति- M, N, O, P, Q, R, S, T, U और V पांच अलग-अलग महीने जनवरी से मई की अलग-अलग तिथि- 11 और 16 को परीक्षा देने जाते हैं लेकिन जरूरी नहीं कि समान क्रम में हों।

O, 16 फरवरी को परीक्षा के लिए जाता है। O और S के बीच चार से अधिक व्यक्ति परीक्षा देते हैं। S से पहले परीक्षा देने वाले व्यक्तियों की संख्या, P के बाद परीक्षा देने वाले व्यक्तियों की संख्या के समान है। V समान महीने में Q से ठीक पहले जाता है, जिसमें सम संख्या में दिन है। P और M के बीच कोई नहीं जाता है। T, N के ठीक पहले जाता है। U, R के बाद जाता है।

**Q20.** How many persons go for exam after V?

V के बाद कितने व्यक्ति परीक्षा देने जाते हैं?

(a) One

एक

(b) Three

तीन

(c) Six

छह

(d) Five

छह

(e) None of these

इनमें से कोई नहीं

**Q21.** How many persons go between R and U?

R और U के मध्य कितने व्यक्ति जाते हैं?

(a) None

कोई नहीं

(b) Four

चार

(c) More than four

चार से अधिक

(d) Two

दो

(e) None of these

इनमें से कोई नहीं

**Q22.** Which of the following statement is true?

निम्नलिखित में से कौन सा कथन सत्य है?

**I.** Only two persons go between M and T

M और T के बीच केवल दो व्यक्ति जाते हैं

**II.** No one goes before S

S से पहले कोई नहीं जाता है

**III.** T goes on numbered date

T विषम संख्या की तिथि पर जाता है

(a) Both I and III

I और III दोनों

(b) Only III

केवल III

(c) Both II and III

II और III दोनों

(d) Only II

केवल II

(e) All I, II and III

I, II और III सभी



**Q23.** On which date N goes for exam?

N किस तिथि को परीक्षा देने जाता है?

(a) 16th January

16 जनवरी

(b) 11th April

11 अप्रैल

(c) 11th May

11 मई

(d) 16th March

16 मार्च

(e) None of these

इनमें से कोई नहीं

**Q24.** Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?

निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह चुनिए जो उस समूह से संबंधित नहीं है?

- (a) M
- (b) N
- (c) S
- (d) O
- (e) V

**Q25.** If we form a meaningful word by the second, fourth, seventh and ninth letter of the word 'WORKBENCH', then which of the following will be the third letter of the word thus formed. If more than one word is formed mark Y as your answer. If no meaningful word is formed, mark X as your answer?

यदि हम शब्द 'WORKBENCH' के दूसरे, चौथे, सातवें और नौवें अक्षर से एक अर्थपूर्ण शब्द बनाते हैं, तो इस प्रकार बने शब्द का तीसरा अक्षर निम्नलिखित में से कौन सा होगा। यदि एक से अधिक शब्द बनते हैं तो अपना उत्तर Y के रूप में दीजिये। यदि कोई सार्थक शब्द नहीं बनता है, तो अपना उत्तर X के रूप में दीजिये।

- (a) O
- (b) X
- (c) N
- (d) Y
- (e) K

**Directions (26-30):** In each of the questions below are given some statements followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Directions (26-30):** नीचे दिए गए प्रत्येक प्रश्न में कुछ कथन और उसके बाद कुछ निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों को पढ़िए और फिर तय कीजिये कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की परवाह किए बिना दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

- (a) यदि केवल निष्कर्ष I अनुसरण करता है।
- (b) यदि केवल निष्कर्ष II अनुसरण करता है।
- (c) यदि या तो निष्कर्ष I या II अनुसरण करता है।
- (d) यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।
- (e) यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q26. Statements:**

All Litchi are Mango

Only a few Mango are Orange

Only a few Orange are Papaya

**Conclusion:**

I: All Papaya being Mango is a possibility

II: Some orange is Litchi

**कथन:**

सभी लीची आम हैं

केवल कुछ आम संतरें हैं

केवल कुछ संतरें पपीते हैं

**निष्कर्ष:**

I: सभी पपीते के आम होने की संभावना है

II: कुछ संतरें लीची है

**Q27. Statements:**

Only a few Cat are Rat

No Rat are Horse

All Horse are Dog

**Conclusion:**

I: Some Cat is Dog

II: No Dog is Cat

**कथन:**

केवल कुछ बिल्ली चूहे हैं

कोई चूहा घोडा नहीं है

सभी घोडे कुत्ते हैं

**निष्कर्ष:**

I: कुछ बिल्ली कुत्ते है

II: कोई कुता बिल्ली नहीं है

**Q28. Statements:**

All Dream are Night

No Night is Star

No Dream is Sweet

**Conclusions:**

I. Some Star is Dream

II. Some Sweet is Night is a possibility

**कथन:**

सभी स्वप्न रात हैं

कोई रात सितारे नहीं है

कोई स्वप्न मधुर नहीं है

**निष्कर्ष:**

I. कुछ सितारे स्वप्न हैं

II. कुछ मधुर के रात होने की सम्भावना है





**Q29. Statements:**

Only a few Table are Chair

All Chair are Book

Only a few Book are Pen

**Conclusions:**

I. All Table being Chair is a possibility

II. All Book being Pen is a possibility

**कथन:**

केवल कुछ मेज कुर्सी हैं

सभी कुर्सियां पुस्तकें हैं

केवल कुछ पुस्तकें कलम हैं

**निष्कर्ष:**

I. सभी मेज के कुर्सी होने की संभावना है

II. सभी पुस्तकों के कलम होने की संभावना है

**Q30. Statements:**

No Blue are Black

No Black is Brown

All Brown are Violet

**Conclusions:**

I: All Blue being Violet is a possibility

II: Some Blue is not Brown

**कथन:**

कोई ब्लू ब्लैक नहीं है

कोई ब्लैक ब्राउन नहीं है

सभी ब्राउन वायलेट हैं

**निष्कर्ष:**

I: सभी ब्लू के वायलेट होने की संभावना है

II: कुछ ब्लू ब्राउन नहीं है

**Directions (31-35):** Study the following information carefully and answer the questions given below.

Seven persons A, B, C, D, E, F and G take different fruits Apple, Apricot, Banana, Grapes, Guava, Litchi and Papaya (but not necessary in the same order) on different days of the same week starting from Monday.

B takes fruit on Wednesday. Two persons take fruit between B and A, who takes banana. The number of persons take fruit after A is same as the number of persons take fruit before E, who takes Papaya. G takes fruit just before D, who takes Grapes. C takes fruit two days before the one who takes Litchi. Both F and G are not taken Apple. F does not take Guava.

**Directions (31-35):** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिये और नीचे दिए गए प्रश्नों के उत्तर दीजिये।

सात व्यक्ति- A, B, C, D, E, F और G सोमवार से शुरू होकर एक ही सप्ताह के अलग-अलग दिनों में सेब, खुबानी, केला, अंगूर, अमरूद, लीची और पपीता (लेकिन जरूरी नहीं कि समान क्रम में हो) अलग-अलग फल खाते हैं।

B बुधवार को फल खाता है। B और A, जो केला खाता है, के मध्य दो व्यक्ति फल खाते हैं। A के बाद फल खाने वाले व्यक्तियों की संख्या, E से पहले फल खाने वाले व्यक्तियों की संख्या के समान है, जो पपीता खाता है। G, D, जो अंगूर खाता है, के ठीक पहले फल खाता है। C लीची खाने वाले से दो दिन पहले खाता लेता है। F और G दोनों सेब नहीं खाते हैं। F अमरूद नहीं खाता है।

**Q31.** Who takes \_\_\_ on Friday?

\_\_\_\_\_ शुक्रवार को \_\_\_\_\_ खाता है।

(a) D, Grapes

D, अंगूर

(b) F, Banana

F, केला

(c) E, Apple

E, सेब

(d) G, Litchi

G, लीची

(e) None of these

इनमें से कोई नहीं

**Q32.** Who among the following takes Apricot?

निम्नलिखित में से कौन खुबानी लेता है?

(a) C

(b) B

(c) G

(d) Either (a) or (c)

या तो (a) या (c)

(e) F

**Q33.** Which of the following information is not correct?

निम्नलिखित में से कौन सी जानकारी सही नहीं है?

(a) A - Saturday

A- शनिवार

(b) B - Litchi

B- लीची

(c) F- Friday

F- शुक्रवार

(d) C- Monday

C- सोमवार

(e) D- Grapes

D- अंगूर

**Q34.** How many days gap between A and the one who takes Litchi?

A और लीची खाने वाले व्यक्तियों के बीच कितने दिनों का अंतर है?

(a) Two

दो

(b) Four

चार

(c) More than four

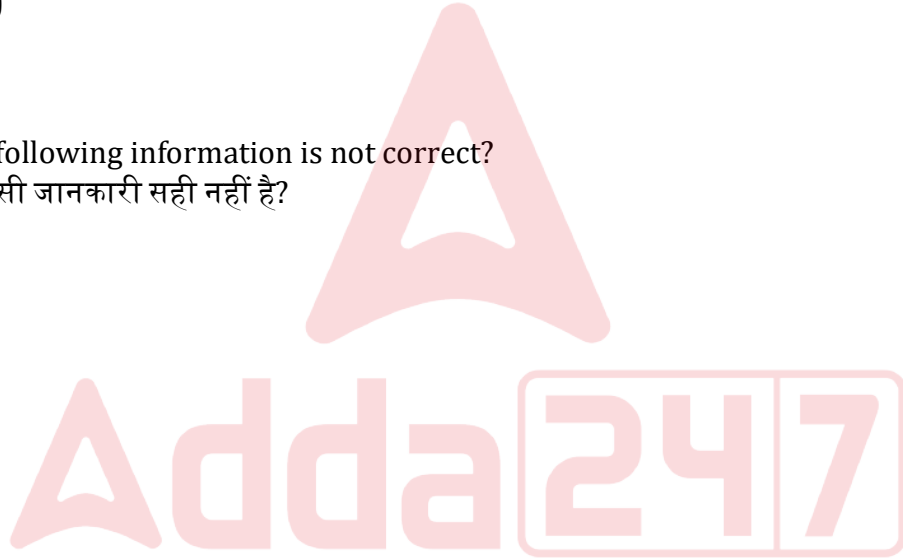
चार से अधिक

(d) One

एक

(e) None of these

इनमें से कोई नहीं



**Q35.** B और A के बीच फल खाने वाले व्यक्तियों की संख्या \_\_\_ और F के बीच फल खाने वाले व्यक्तियों की संख्या के समान है?

- (a) A
- (b) C
- (c) E
- (d) G
- (e) None of these

इनमें से कोई नहीं

**Directions (36-40):** Study the following information carefully and answer the questions given below.

In a certain code language:

“exam is mandatory for all” is coded as “pq wr ty mr cg”

“easy exam is here” is coded as “yr wr pq ks”

“good for mandatory exam” is coded as “gt ty mr wr”

“good exam for all” is coded as “gt wr ty cg”

**Directions (36-40):** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिये और नीचे दिए गए प्रश्नों के उत्तर दीजिये।

एक निश्चित कूट भाषा में:

“exam is mandatory for all” को “pq wr ty mr cg” के रूप में कूटबद्ध किया जाता है

“easy exam is here” को “yr wr pq ks” के रूप में कूटबद्ध किया जाता है

“good for mandatory exam” को “gt ty mr wr” के रूप में कूटबद्ध किया जाता है

“good exam for all” को “gt wr ty cg” के रूप में कूटबद्ध किया जाता है

**Q36.** What is the code for “good exam” in the given code language?

दी गई कूट भाषा में “good exam” के लिए कूट क्या है?

- (a) pq wr
- (b) cg gt
- (c) mr wr
- (d) gt wr
- (e) None of these

इनमें से कोई नहीं

**Q37.** The code “cg” is coded for which of the following word?

कूट “cg” को निम्नलिखित में से किस शब्द के लिए कूटबद्ध किया गया है?

- (a) Mandatory
- (b) here
- (c) all
- (d) exam
- (e) None of these

इनमें से कोई नहीं

**Q38.** What is the code for “here” in the given code language?

दी गई कूट भाषा में “here” के लिए क्या कूट है?

- (a) ks
- (b) cg
- (c) yr
- (d) gt
- (e) Either (a) or (c)

या तो (a) या (c)

**Q39.** If “tuff exam easy” is coded as “wr ks ft” then what is the code for “merit is here”?

यदि “tuff exam easy” को “wr ks ft” के रूप में कूटबद्ध किया जाता है, तो “merit is here” का कूट क्या होगा?

- (a) sq pq ks
- (b) yr wr cg
- (c) ks gt pq
- (d) yr pq sw
- (e) None of these

इनमें से कोई नहीं

**Q40.** The code “ks gt” is code for?

कूट “ks gt” किसके लिए कूट है?

- (a) for easy
- (b) here for
- (c) good here
- (d) easy good
- (e) Can't be determined

निर्धारित नहीं किया जा सकता

**Direction (41-46):** What will come in the place of question (?) mark in following number series.

निम्नलिखित संख्या श्रृंखला में प्रश्नचिह्न (?) के स्थान पर क्या आएगा?

**Q41.** 1005, 1000, 985, 960, 925, ?

- (a) 895
- (b) 890
- (c) 880
- (d) 870
- (e) 875

**Q42.** 8, 10, 23, 73, ?, 1491

- (a) 307
- (b) 302
- (c) 293
- (d) 295
- (e) 297

Q43. 4, 8, 35, 51, 176, ?

- (a) 212
- (b) 222
- (c) 202
- (d) 204
- (e) 206

Q44. 500, ?, 250, 750, 187.5, 937.5

- (a) 1000
- (b) 500
- (c) 250
- (d) 125
- (e) 1500

Q45. 44, 46, 50, 58, 74, ?

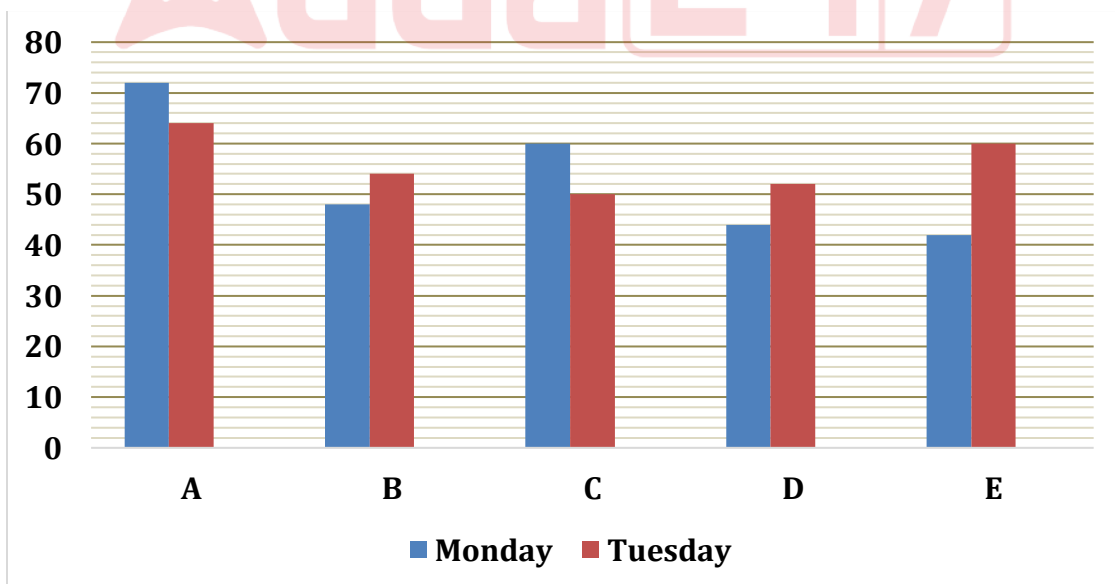
- (a) 96
- (b) 116
- (c) 108
- (d) 106
- (e) 104

Q46. 88, 99, 92, 97, 94, ?

- (a) 98
- (b) 92
- (c) 96
- (d) 102
- (e) 100

**Directions (47–51):** Bar graph given below shows number of pages typing by five (A, B, C, D & E) different people on two (Monday & Tuesday) different days. Read the data carefully and answer the questions.

नीचे दिया गया बार ग्राफ पांच (A, B, C, D और E) अलग-अलग व्यक्तियों द्वारा दो अलग-अलग दिनों (सोमवार और मंगलवार) में टाइप किये गए पृष्ठों की संख्या को दर्शाता है। आकड़ों का ध्यानपूर्वक अध्ययन कीजिए और प्रश्नों के उत्तर दीजिये।



**Q47.** Total number of pages typed by B & E together on Monday is what percent more than total number of pages typed by C on Tuesday?

सोमवार को B और E द्वारा मिलकर टाइप किए गए पृष्ठों की कुल संख्या, मंगलवार को C द्वारा टाइप किए गए पृष्ठों की कुल संख्या से कितने प्रतिशत अधिक है?

- (a) 64%
- (b) 80%
- (c) 90%
- (d) 96%
- (e) 60%

**Q48.** Find the approximate difference between the average number of pages typed by A, C & D on Monday and total number pages typed by A & E together on Tuesday?

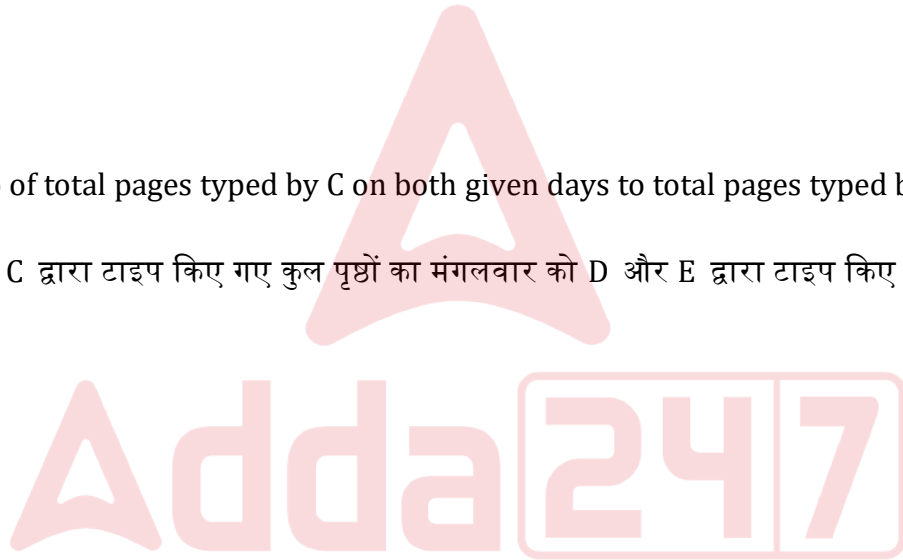
सोमवार को A, C और D द्वारा टाइप किए गए पृष्ठों की औसत संख्या तथा मंगलवार को A और E द्वारा टाइप किए गए कुल पृष्ठों की संख्या के बीच अंतर (लगभग) ज्ञात कीजिए।

- (a) 65
- (b) 72
- (c) 68
- (d) 62
- (e) 56

**Q49.** Find the ratio of total pages typed by C on both given days to total pages typed by D & E together on Tuesday?

दोनों दिए गए दिनों में C द्वारा टाइप किए गए कुल पृष्ठों का मंगलवार को D और E द्वारा टाइप किए गए कुल पृष्ठों से अनुपात ज्ञात कीजिए।

- (a) 56 : 55
- (b) 55 : 54
- (c) 55 : 58
- (d) 55 : 56
- (e) 55 : 62



**Q50.** If total pages typed by B on Wednesday is 37.5% more than that of Monday and total pages typed by E on Wednesday is 6 more than that of by B on Wednesday, then find total number of pages typed by E on Monday, Tuesday & Wednesday together?

यदि बुधवार को B द्वारा टाइप किए गए कुल पृष्ठ, सोमवार को B द्वारा टाइप किए गए कुल पृष्ठ की तुलना में 37.5% अधिक हैं तथा बुधवार को E द्वारा टाइप किए गए कुल पृष्ठ, बुधवार को B द्वारा टाइप किए गए पृष्ठों की कुल संख्या से 6 अधिक हैं, तो सोमवार, मंगलवार और बुधवार को एकसाथ E द्वारा टाइप किए गए पृष्ठों की कुल संख्या ज्ञात कीजिए।

- (a) 174
- (b) 172
- (c) 176
- (d) 178
- (e) 170

**Q51.** Total pages typed by B, D & E together on Tuesday is how much more or less than total pages typed by A & C together on Monday?

मंगलवार को B, D और E द्वारा मिलकर टाइप किए गए कुल पृष्ठ, सोमवार को A और C द्वारा मिलाकर टाइप किए गए कुल पृष्ठों से कितने अधिक या कम हैं?

- (a) 32
- (b) 44
- (c) 34
- (d) 36
- (e) 38

**Direction (52-56):** Table given below shows total number of students (males and females) in three different colleges and number of students (males and females) speak French out of total students in each college. Read the data carefully and answer the questions.

**Note** – Student in each college speak only either French or German.

College	Total males	Total females	Students speak French
A	120	80	112
B	160	120	160
C	192	168	224

**Direction (52 - 56):** नीचे दी गई तालिका तीन अलग-अलग कॉलेजों में विद्यार्थियों (पुरुषों और महिलाओं) की कुल संख्या और प्रत्येक कॉलेज में कुल विद्यार्थियों में से फ्रेंच बोलने वाले विद्यार्थियों (पुरुषों और महिलाओं) की संख्या को दर्शाती है। आंकड़ों को ध्यानपूर्वक पढ़िए और दिए गए प्रश्नों के उत्तर दीजिये।

नोट- प्रत्येक कॉलेज के विद्यार्थी केवल फ्रेंच या जर्मन बोलते हैं।

कॉलेज	कुल पुरुष	कुल महिलायें	फ्रेंच बोलने वाले विद्यार्थी
A	120	80	112
B	160	120	160
C	192	168	224

**Q52.** If total females speak French from B is 72, then find difference between total males and females speak German from the same college?

यदि B से फ्रेंच बोलने वाली महिलाओं की कुल संख्या 72 है, तो समान कॉलेज से जर्मन बोलने वाले पुरुषों और महिलाओं की कुल संख्या के बीच अंतर ज्ञात कीजिए?

- (a) 24
- (b) 36
- (c) 32
- (d) 16
- (e) 40

**Q53.** If 62.5% of total students speak French from C are males, then find the difference between total females speak French from C and total students speak German from A?

यदि C से फ्रेंच बोलने वाले कुल विद्यार्थियों में से 62.5% पुरुष हैं, तो C से फ्रेंच बोलने वाली कुल महिलाओं और A से जर्मन बोलने वाले कुल विद्यार्थियों के बीच अंतर ज्ञात कीजिए?

- (a) 2
- (b) 4
- (c) 6
- (d) 8
- (e) 12

**Q54.** If 70% of total females from B speak French and 32 of total students speak French from A are females, then find total males speak German from B are what percent less than total males speak French from A?

यदि B की कुल महिलाओं में से 70% फ्रेंच बोलती हैं और A से फ्रेंच बोलने वाले कुल विद्यार्थियों में से 32 महिलाएं हैं, तो ज्ञात कीजिए कि B से जर्मन बोलने वाले कुल पुरुष A से फ्रेंच बोलने वाले कुल पुरुषों से कितने प्रतिशत कम हैं?

- (a) 0.5%
- (b) 5%
- (c) 2%
- (d) 1%
- (e) 0.25%

**Q55.** Find ratio of total students speaks German from all the three colleges together to total males in A & B together?

सभी तीन कॉलेजों से मिलाकर जर्मन बोलने वाले कुल विद्यार्थियों का A और B में मिलाकर कुल पुरुषों से अनुपात ज्ञात कीजिए?

- (a) 41 : 35
- (b) 35 : 43
- (c) 43 : 37
- (d) 43 : 35
- (e) 43 : 33

**Q56.** The ratio of female speaks German to French from C is 4 : 3 and total females speaks German from college M are 24 less than total males speak French from C. If ratio of total males to females speaks German from college M is 4 : 5 and there are total 480 student in college M, then find total number of students speak French from M (Student in college M speak only either French or German)?

C से जर्मन बोलने वाली महिलाओं का फ्रेंच बोलने वाली महिलाओं से अनुपात 4:3 है और कॉलेज M से जर्मन बोलने वाली कुल महिलायें कॉलेज C से फ्रेंच बोलने वाले पुरुषों की कुल संख्या से 24 कम है। यदि कॉलेज M से जर्मन बोलने वाले पुरुषों का महिलाओं से अनुपात 4:5 है और कॉलेज M में कुल 480 विद्यार्थी हैं, तो M से फ्रेंच बोलने वाले विद्यार्थियों की कुल संख्या ज्ञात कीजिए (कॉलेज M के विद्यार्थी केवल फ्रेंच या जर्मन बोलते हैं)?

- (a) 168
- (b) 192
- (c) 212
- (d) 172
- (e) 182

**Q57.** Circumference of a circle is 88 cm and radius of the cylinder is  $\frac{3}{4}$  of the diameter of the circle. If height of cylinder is 12 cm, then find the volume (in  $\text{cm}^3$ ) of the cylinder?

एक वृत्त की परिधि 88 सेमी है और बेलन की त्रिज्या, वृत्त के व्यास का  $\frac{3}{4}$  है। यदि बेलन की ऊँचाई 12 सेमी है, तो बेलन का आयतन (सेमी<sup>3</sup> में) ज्ञात कीजिए।

- (a) 16638
- (b) 16632
- (c) 16648
- (d) 16378
- (e) 16366

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**Q58.** A & B invested Rs. 4200 and Rs. 4000 respectively in a business and after six months B withdrew Rs. 500 from his initial investment. If after one year the profit share of B is Rs. 3000, then find the total profit?

A और B ने एक व्यवसाय में क्रमशः 4200 रुपये और 4000 रुपये का निवेश किया और छह महीने के बाद B ने अपने प्रारंभिक निवेश से 500 रुपये वापस ले लिए। यदि एक वर्ष के पश्चात् अर्जित होने वाले लाभ में B का हिस्सा 3000 रुपये है, तो कुल लाभ ज्ञात कीजिए?

(a) Rs. 6360

6360 रुपये

(b) Rs. 6160

6160 रुपये

(c) Rs. 6560

6560 रुपये

(d) Rs. 5960

5960 रुपये

(e) Rs. 6320

6320 रुपये

**Q59.** Six years hence the ratio of age of A to B will be 5 : 6 and present age of A is 24 years. Find how many years will take by B to getting age of 39 years?

छह वर्ष बाद A और B की आयु का अनुपात 5:6 होगा और A की वर्तमान आयु 24 वर्ष है। ज्ञात कीजिए कि B को 39 वर्ष की आयु प्राप्त करने में कितने वर्ष का समय लगेगा?

(a) 3 years

3 वर्ष

(b) 6 years

6 वर्ष

(C) 10 years

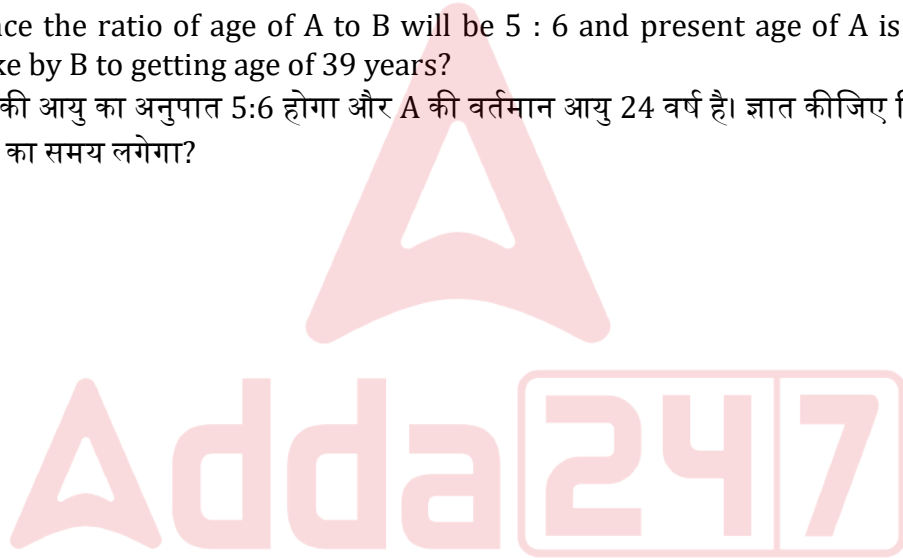
10 वर्ष

(d) 9 years

9 वर्ष

(e) 12 years

12 वर्ष



**Q60.** Pipe A and pipe B together can fill the tank in 24 minutes, while pipe A, pipe B and pipe C together can fill the tank in 30 minutes and Pipe B and Pipe C together can fill the tank in 60 minutes. In how many minutes pipe A alone can fill the same tank completely.

पाइप A और पाइप B मिलकर टैंक को 24 मिनट में भर सकते हैं, जबकि पाइप A, पाइप B और पाइप C मिलकर टैंक को 30 मिनट में भर सकते हैं और पाइप B और पाइप C मिलकर टैंक को 60 मिनट में भर सकते हैं। पाइप A अकेले उसी टैंक को कितने मिनट में पूर्णतः भर सकता है?

(a) 40

(b) 120

(c) 80

(d) 60

(e) 100

**Q61.** B is 20% less efficient than A, who completes a work in 72 days. C alone can complete the same work in 60 days. If all three started working alternatively starting with A and followed by B and C respectively, then find in how many days the work will be completed?

B, A से 20% कम कार्यकुशल है, जो एक कार्य को 72 दिनों में समाप्त करता है। C अकेले उसी कार्य को 60 दिनों में समाप्त कर सकता है। यदि तीनों क्रमशः A से शुरू करते हुए एकांतर रूप से कार्य करना आरम्भ करते हैं और उसके बाद क्रमशः B और C कार्य करना शुरू करते हैं, तो ज्ञात कीजिए कि कार्य कितने दिनों में समाप्त हो जाएगा?

(a) 20 days

20 दिन

(b) 30 days

30 दिन

(c) 36 days

36 दिन

(d) 72 days

72 दिन

(e) 64 days

64 दिन

**Q62.** Train A crosses a man running in opposite direction in 16 seconds. Speed of man is 18 km/hr. and speed of train A is 72 km/hr. Find length of train A (in meters)?

ट्रेन A विपरीत दिशा में दौड़ रहे एक व्यक्ति को 16 सेकंड में पार करती है। व्यक्ति की गति 18 किमी/घंटा है और ट्रेन A की गति 72 किमी/घंटा है। ट्रेन A की लंबाई (मीटर में) ज्ञात कीजिए?

(a) 280

(b) 360

(c) 480

(d) 600

(e) 400

**Q63.** A man sold a table at 33% profit after allowing a discount of 5% on it. Had he sold the table at marked price, then he would have earned Rs.420 more profit. Find cost price of table (in Rs.)?

एक व्यक्ति ने एक मेज 5% की छूट देने के पश्चात् 33% लाभ पर बेची। यदि वह मेज को अंकित मूल्य पर बेचता, तो उसे 420 रुपये अधिक लाभ होता। मेज का क्रय मूल्य ज्ञात कीजिये (रुपये में)?

(a) 6000

(b) 7200

(c) 6600

(d) 7800

(e) 8400

**Q64.** Deepak invested some amount on SI out of Rs.47000 and rest amount on C.I. for two years. If S.I. is offering 12% p.a. and C. I. is offering 15% p.a. compounding annually and C.I. is Rs.532.5 more than S.I., then find amount invested by Deepak on C.I.?

दीपक ने 47000 रुपये में से, दो वर्षों के लिए कुछ राशि साधारण ब्याज पर और शेष राशि चक्रवृद्धि ब्याज पर निवेश की। यदि वार्षिक संयोजित करने पर साधारण ब्याज की दर 12% प्रति वर्ष और चक्रवृद्धि ब्याज की दर 15% प्रति वर्ष है और चक्रवृद्धि ब्याज, साधारण ब्याज से 532.5 रुपये अधिक है, तो दीपक द्वारा चक्रवृद्धि ब्याज पर निवेश की गयी धनराशि ज्ञात कीजिये।

- (a) Rs.23000
- (b) Rs.22000
- (c) Rs.21000
- (d) Rs.25000
- (e) Rs.24000

**Q65.** A vessel contains mixture in which 25% is water and rest is milk. If 40 liters more water added in vessel, then quantity of water becomes 40% of mixture. Find the quantity of milk in the vessel?

एक बर्तन में 25% पानी है और शेष दूध है। यदि बर्तन में 40 लीटर अधिक पानी मिला दिया जाए, तो पानी की मात्रा मिश्रण की 40% हो जाएगी। बर्तन में दूध की मात्रा ज्ञात कीजिए।

- (a) 100 l
- (b) 140 l
- (c) 160 l
- (d) 120 l
- (e) 80 l

**Q66.** A bag contains 8 red balls, 5 green balls and 7 black balls. If two balls are drawn from the bag randomly, then find the probability of getting exactly one red ball.

एक बैग में 8 लाल गेंदें, 5 हरी गेंदें और 7 काली गेंदें हैं। यदि बैग में से दो गेंदें यादृच्छिक रूप से निकाली जाती हैं, तो ठीक एक लाल गेंद प्राप्त होने की प्रायिकता ज्ञात कीजिए।

- (a)  $\frac{14}{57}$
- (b)  $\frac{28}{95}$
- (c)  $\frac{4}{19}$
- (d)  $\frac{48}{95}$
- (e) None of the above.

इनमें से कोई नहीं

**Q67.** 40% of 'x' is equal to 30% of 'y'. If average of x & y is 30 more than x, then find 75% of the 'y'?

'x' का 40%, 'y' के 30% के बराबर है। यदि x और y का औसत, x से 30 अधिक है, तो 'y' का 75% ज्ञात कीजिए।

- (a) 180
- (b) 150
- (c) 240
- (d) 210
- (e) 360

**Q68.** The difference between CI earned in two years and SI received in 3 years on the sum of Rs. 2000 is Rs. 205. Find the rate of simple interest for the 3<sup>rd</sup> year if the rate of interest for the first two years is 15% on both CI and SI? (S.I. of 3 year is more than C.I. of 2 year)

2000 रु. रुपये की धनराशि पर 2 वर्ष में प्राप्त चक्रवृद्धि ब्याज और 3 वर्ष में प्राप्त साधारण ब्याज का अंतर 205 है। यदि चक्रवृद्धि ब्याज और साधारण ब्याज दोनों पर पहले दो वर्षों के लिए ब्याज दर 15% है, तो तीसरे वर्ष के लिए साधारण ब्याज की दर ज्ञात कीजिए। (3 वर्ष का साधारण ब्याज, 2 वर्ष के चक्रवृद्धि ब्याज से अधिक है)

- (a) 12.5%
- (b) 10%
- (c) 15%
- (d) 5%
- (e)  $11\frac{1}{9}\%$

**Q69.** A boat can cover certain distance in upstream in 16 minutes and the same distance in still water in 12 minutes. Find the time taken by boat to cover same distance in downstream.

एक नाव एक निश्चित दूरी को धारा के प्रतिकूल 16 मिनट और समान दूरी को शांत जल में 12 मिनट तय कर सकता है। धारा के अनुकूल समान दूरी तय करने के लिए नाव द्वारा लिया गया समय ज्ञात कीजिए।

- (a) 8 minutes  
8 मिनट
- (b) 9.6 minutes  
9.6 मिनट
- (c) 10 minutes  
10 मिनट
- (d) 8.8 minutes  
8.8 मिनट
- (e) 9.4 minutes  
9.4 मिनट

**Directions (70-74):** study the given information carefully and answer the questions.

Total 1000 students appeared in three (GMAT, CRE & CAT) different exams. Some students appeared in single exam, while some appeared more than it. 20 students appeared in all three exams. 150 students appeared in more than one exam. 200 students appeared in only CAT, while 280 students appeared in only CRE. 40% of total students appeared in CRE.

Number of students appeared for both GMAT & CRE but not CAT is equal to number of students appeared for both CAT and CRE but not for GMAT.

दी गई जानकारी का ध्यानपूर्वक अध्ययन कीजिए और प्रश्नों के उत्तर दीजिए।

कुल 1000 छात्र तीन (GMAT, CRE और CAT) विभिन्न परीक्षाओं में उपस्थित होते हैं। कुछ छात्र एकल परीक्षा में उपस्थित हुए, जबकि कुछ इससे अधिक में उपस्थित होते हैं। तीनों परीक्षाओं में 20 छात्र शामिल होते हैं। एक से अधिक परीक्षाओं में 150 छात्र उपस्थित होते हैं। केवल CAT में 200 छात्र उपस्थित होते हैं, जबकि 280 छात्र केवल CRE में उपस्थित होते हैं। कुल छात्रों का 40% CRE में उपस्थित होता है।

GMAT और CRE दोनों लेकिन CAT के लिए नहीं उपस्थित होने वाले छात्रों की संख्या, CAT और CRE दोनों लेकिन GMAT के लिए नहीं उपस्थित होने वाले छात्रों की संख्या के बराबर है।

**Q70.** How many students appeared in only GMAT & CAT together?

केवल GMAT और CAT में एकसाथ कितने छात्र उपस्थित हुए।

- (a) 20
- (b) 30
- (c) 50
- (d) 40
- (e) 10

**Q71.** Total students appeared in only GMAT exam are what percent of students appeared in only CAT exam?

केवल GMAT परीक्षा में उपस्थित होने वाले कुल छात्र, केवल CAT परीक्षा में उपस्थित होने वाले छात्रों का कितना प्रतिशत है?

- (a) 140%
- (b) 150%
- (c) 175%
- (d) 165%
- (e) None of these / इनमें से कोई नहीं

**Q72.** What is the ratio of students appeared in both GMAT & CAT exams together to students appeared in all three exams?

GMAT और CAT दोनों परीक्षाओं में एकसाथ उपस्थित होने वाले छात्रों का तीनों परीक्षाओं में उपस्थित होने वाले छात्रों से अनुपात कितना है?

- (a) 3:2
- (b) 2:3
- (c) 3:5
- (d) 5:3
- (e) 5:2

**Q73.** Students appeared in GMAT exam are what percent more than students appeared in CAT exam?

GMAT परीक्षा में उपस्थित होने वाले छात्र, CAT परीक्षा में उपस्थित होने वाले छात्रों से कितने प्रतिशत अधिक हैं?

- (a) 40%
- (b) 85%
- (c) 33.33%
- (d) 12.5%
- (e) 56.67%

**Q74.** How many students appeared in only one exam?

कितने छात्र केवल एक परीक्षा में उपस्थित होते हैं?

- (a) 860
- (b) 870
- (c) 850
- (d) 830
- (e) 84

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**Directions (75-80):** In the following questions there are two equations given. You have to solve both the equations and give answer:

- (a) if  $x > y$
- (b) if  $x < y$
- (c) if  $x \geq y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or relation between  $x$  and  $y$  cannot be established

निम्नलिखित प्रश्नों में दो समीकरण दिए गए हैं। आपको दोनों समीकरणों को हल करना है और उत्तर देना है:

- (a) यदि  $x > y$
- (b) यदि  $x < y$
- (c) यदि  $x \geq y$
- (d) यदि  $x \leq y$
- (e) यदि  $x = y$  या  $x$  और  $y$  के बीच संबंध स्थापित नहीं किया जा सकता

**Q75. I.**  $x^2 + 4x - 12 = 0$

**II.**  $2y^2 + 7y + 6 = 0$

**Q76. I.**  $x^2 + 12x + 35 = 0$

**II.**  $y^2 + 9y + 20 = 0$

**Q77. I.**  $x^2 - 15x + 54 = 0$

**II.**  $y^2 - 23y + 132 = 0$

**Q78. I.**  $x^2 - 13x + 42 = 0$

**II.**  $y^2 - 15y + 56 = 0$

**Q79. I.**  $x = \sqrt[3]{512}$

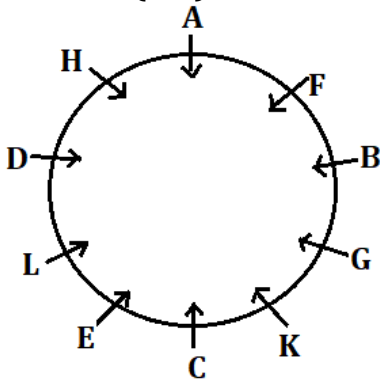
**II.**  $y^2 = 64$

**Q80. I.**  $2x^2 + 7x + 3 = 0$

**II.**  $2y^2 + 12y + 18 = 0$

## Solutions

**Solutions (1-5):**



**S1. Ans.(b)**

**S2. Ans.(c)**

**S3. Ans.(d)**

**S4. Ans.(e)**

**S5. Ans.(b)**

**S6. Ans.(e)**

**Sol. I.**  $S > V$  (false)

**II.**  $S = V$  (false)

**S7. Ans.(e)**

**Sol. I.**  $M > E$  (false)

**II.**  $A \geq K$  (false)

**S8. Ans.(a)**

**Sol. I.**  $B < E$  (true)

**II.**  $A > M$  (false)

**S9. Ans.(d)**

**Sol. I.**  $H < E$  (true)

**II.**  $O < K$  (true)

**S10. Ans.(a)**

**Sol.** Given word- SNITCHED

**Sol.** After applied given condition- TOHUDIDE

**Solutions (11-13):**

$\frac{T}{64}$     $\frac{Q}{64}$     $\frac{R}{64}$     $\frac{P}{64}$     $\frac{S}{64}$     $\frac{U}{51}$

**S11. Ans. (a)**

**S12. Ans. (c)**

**S13. Ans. (b)**

**S14. Ans. (e)**

**Sol.** Except JP all the first letters are reversed to second letter.

**Solutions (15-18):**

Persons	Department
P	Marketing
V	Marketing
Q	Marketing
T	Marketing
W	Finance
R	Finance
X	Finance
U	HR
S	HR

S15. Ans.(d)

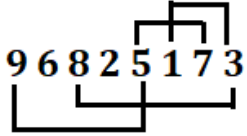
S16. Ans.(c)

S17. Ans.(b)

S18. Ans.(b)

S19. Ans.(d)

Sol.



Solutions (20-24):

Month	Dates	Persons
January	11	P
	16	M
February	11	R
	16	O
March	11	T
	16	N
April	11	V
	16	Q
May	11	U
	16	S

S20. Ans. (b)

S21. Ans. (c)

S22. Ans. (a)

S23. Ans. (d)

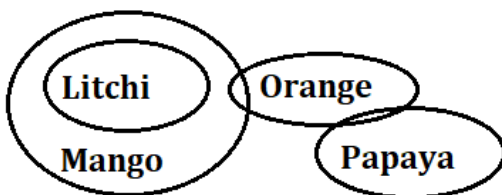
S24. Ans. (e)

S25. Ans. (c)

Sol. 'HONK'

S26. Ans.(a)

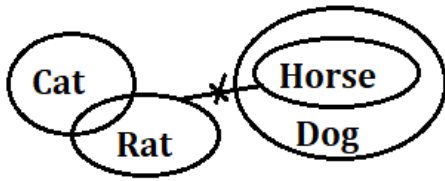
Sol.





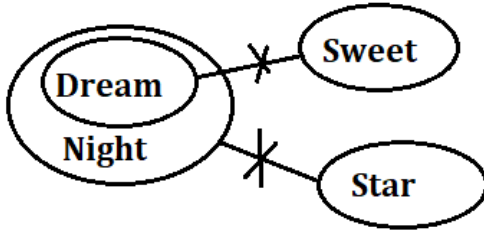
S27. Ans.(c)

Sol.



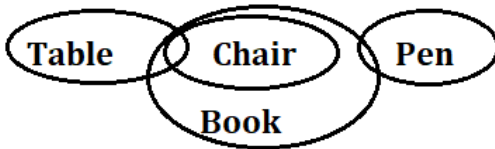
S28. Ans.(b)

Sol.



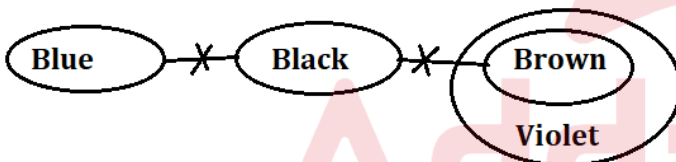
S29. Ans.(d)

Sol.



S30. Ans.(a)

Sol.



Solutions (31-35):

Days	Persons	Fruits
Monday	C	Apple
Tuesday	E	Papaya
Wednesday	B	Litchi
Thursday	G	Guava
Friday	D	Grapes
Saturday	A	Banana
Sunday	F	Apricot

S31. Ans. (a)

S32. Ans. (e)

S33. Ans. (c)

S34. Ans. (a)

S35. Ans. (d)

**Solutions (36-40):**

Word	Code
Exam	Wr
Is	Pq
Mandatory	Mr
For	Ty
All	Cg
Easy/here	Ks/yr
Good	Gt

**S36. Ans. (d)**

**S37. Ans. (c)**

**S38. Ans. (e)**

**S39. Ans. (d)**

**S40. Ans. (e)**

**S41. Ans.(c)**

**Sol.** Pattern of series –

$$1005 - (5 \times 1) = 1000$$

$$1000 - (5 \times 3) = 985$$

$$985 - (5 \times 5) = 960$$

$$960 - (5 \times 7) = 925$$

$$925 - (5 \times 9) = \mathbf{880}$$

**S42. Ans.(e)**

**Sol.** Pattern of series –

$$8 \times 1 + 2 = 10$$

$$10 \times 2 + 3 = 23$$

$$23 \times 3 + 4 = 73$$

$$73 \times 4 + 5 = \mathbf{297}$$

$$297 \times 5 + 6 = 1491$$

**S43. Ans.(a)**

**Sol.** Pattern of series –

$$4 + 2^2 = 8$$

$$8 + 3^3 = 35$$

$$35 + 4^2 = 51$$

$$51 + 5^3 = 176$$

$$176 + 6^2 = \mathbf{212}$$



**S44. Ans.(b)****Sol.** Pattern of series –

$$500 \times 1 = 500$$

$$500 \div 2 = 250$$

$$250 \times 3 = 750$$

$$750 \div 4 = 187.5$$

$$187.5 \times 5 = 937.5$$

**S45. Ans.(d)****Sol.** Pattern of series –

$$44 + 2 = 46$$

$$46 + 4 = 50$$

$$50 + 8 = 58$$

$$58 + 16 = 74$$

$$74 + 32 = 106$$

**S46. Ans.(c)****Sol.** Pattern of series –

Addition and subtraction of consecutive prime numbers

$$88 + 11 = 99$$

$$99 - 7 = 92$$

$$92 + 5 = 97$$

$$97 - 3 = 94$$

$$94 + 2 = 96$$

**S47. Ans.(b)****Sol.** Total number of pages typed by B & E together on Monday =  $48 + 42 = 90$ 

$$\text{Required percentage} = \frac{90-50}{50} \times 100 = 80\%$$

**S48. Ans.(a)****Sol.** Average number of pages typed by A, C & D on Monday =  $\frac{72+60+44}{3} = 59$  (approx.)Total number pages typed by A & E together on Tuesday =  $64 + 60 = 124$ 

$$\text{Required difference} = 124 - 59 = 65$$

**S49. Ans.(d)****Sol.** Total pages typed by C on both given days =  $60 + 50 = 110$ Total number pages typed by A & E together on Tuesday =  $52 + 60 = 112$ 

$$\text{Required ratio} = 110 : 112 = 55 : 56$$

**S50. Ans.(a)****Sol.** Total pages typed by total pages typed by E on Wednesday =  $48 \times \frac{11}{8} + 6 = 72$ 

$$\text{Required sum} = (42 + 60 + 72) = 174$$

**S51. Ans.(c)**

**Sol.** Total pages typed by B, D & E together on Tuesday =  $(54 + 52 + 60) = 166$

Total pages typed by A & C together on Monday =  $72 + 60 = 132$

Required difference =  $166 - 132 = 34$

**S52. Ans.(a)**

**Sol.** Total students speak German from B =  $(160 + 120) - 160 = 120$

Total females speak German from B =  $120 - 72 = 48$

Total males speak German from B =  $120 - 48 = 72$

Required difference =  $72 - 48 = 24$

**S53. Ans.(b)**

**Sol.** Total females speak French from C =  $224 \times \frac{3}{8} = 84$

Total students speak German from A =  $(120 + 80) - 112 = 88$

Required difference =  $88 - 84 = 4$

**S54. Ans.(a)**

**Sol.** Total males speak French from A =  $112 - 32 = 80$

Total males speak German from B =  $160 - 120 \times \frac{70}{100} = 76$

Required percentage =  $\frac{80-76}{80} \times 100 = 0.5\%$

**S55. Ans.(d)**

**Sol.** Total students speak German from all the three colleges together

=  $(120 + 80 - 112) + (160 + 120 - 160) + (192 + 168 - 224)$

=  $88 + 120 + 136$

=  $344$

Total males in A & B together =  $120 + 160 = 280$

Required ratio =  $344 : 280$

=  $43 : 35$

**S56. Ans.(b)**

**Sol.** Total females speak German from college M =  $(224 - 168 \times \frac{3}{7}) - 24 = 128$

Total students speak German from M =  $128 + 128 \times \frac{5}{4} = 288$

So, total number of students speak French from M =  $480 - 288 = 192$

**S57. Ans.(b)**

**Sol.** Given,  $2\pi r = 88$

$r = 14$  cm

ATQ -

Radius of cylinder =  $14 \times 2 \times \frac{3}{4} = 21$  cm

Required volume =  $\frac{22}{7} \times 21 \times 21 \times 12 = 16632$  cm<sup>3</sup>

**S58. Ans.(a)**

**Sol.** Profit ratio of A to B =  $(42 \times 12) : (40 \times 6 + 35 \times 6)$   
 $= 28 : 25$

Given, 25 = 3000

So, total profit =  $\frac{(28+25)}{25} \times 3000 = 6360 \text{ Rs.}$

**S59. Ans.(d)**

**Sol.** Age of A six years hence =  $24 + 6 = 30$  years

So, age of B six years hence =  $30 \times \frac{6}{5} = 36$  years

Present age of B =  $36 - 6 = 30$  years

Required years =  $39 - 30 = 9$  years

**S60. Ans.(d)**

**Sol.**  $A + B = \frac{1}{24}$

$A + B + C = \frac{1}{30}$

$\Rightarrow C = \frac{1}{30} - \frac{1}{24} = \frac{4-5}{120} = \frac{-1}{120}$

Pipe 'C' is an outlet pipe which can empty the tank in 120 minutes.

$B + C = \frac{1}{60}$

$B = \frac{1}{60} + \frac{1}{120} = \frac{2+1}{120} = \frac{1}{40}$

$A + B = \frac{1}{24}$

$A = \frac{1}{24} - \frac{1}{40} = \frac{5-3}{120} = \frac{2}{120} = \frac{1}{60}$

Pipe 'A' alone can fill the tank completely in 60 minutes.

**S61. Ans.(d)**

**Sol.** Let the efficiency of A =  $5x$  units/day

So, the efficiency of B =  $5x \times \frac{80}{100} = 4x$  units/day

Total work =  $72 \times 5x = 360x$  units

The efficiency of C =  $\frac{360x}{60} = 6x$  units/day

Total work completed by all three alternatively starting with A and followed by Band C respectively, in three days =  $5x + 4x + 6x = 15x$

Required days =  $\frac{360x}{15x} \times 3 = 72$  days

**S62. Ans.(e)**

**Sol.** Let length of train - A be  $x$  meters.

ATQ,

$\frac{x}{16} = (72 + 18) \times \frac{5}{18}$

$x = 400$

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**S63. Ans.(a)****Sol.** Let cost price of table be Rs.100x.

$$\text{So, selling price of table} = 100x \times \frac{133}{100} = \text{Rs.}133x$$

$$\text{And, marked price of table} = 133x \times \frac{100}{95} = \text{Rs.}140x$$

ATQ,

$$140x - 133x = 420$$

$$x = 60 \text{ Rs.}$$

$$\text{Cost price of table} = \text{Rs.}100x = \text{Rs.}6,000$$

**S64. Ans.(c)****Sol.** Let amount invested by Deepak at C.I. be 'Rs.x'.

So, amount invested by Deepak at S.I. = Rs (47000 - x)

Now,

$$\text{Equivalent rate of interest of 15\% C.I. for 2 years} = 15 + 15 + \frac{15 \times 15}{100} = 32.25\%$$

ATQ,

$$\frac{x \times 32.25}{100} - \frac{(47000 - x) \times 2 \times 12}{100} = 532.5$$

$$32.25x + 24x = 1181250$$

$$x = 21000 \text{ Rs.}$$

**S65. Ans.(d)****Sol.** Let total mixture in vessel be Q liters.

Initial quantity of water in vessel = 0.25Q

And, quantity of milk in vessel = 0.75Q

ATQ -

$$\frac{0.25Q + 40}{0.75Q} = \frac{40}{60}$$

$$15Q + 2400 = 30Q$$

$$15Q = 2400$$

$$Q = 160 \text{ l}$$

$$\text{Quantity of milk in vessel} = 160 \times \frac{75}{100} = 120 \text{ l}$$

**S66. Ans.(d)****Sol.** Possible cases = (1 red ball & 1 green ball) or (1 red ball & 1 black ball)

$$\text{Required probability} = \frac{8 \times 5}{20C_2} + \frac{8 \times 7}{20C_2}$$

$$= \frac{4}{19} + \frac{28}{95}$$

$$= \frac{48}{95}$$

**S67. Ans.(a)**

**Sol.** ATQ,  $40 \times \frac{x}{100} = 30 \times \frac{y}{100}$

$4x=3y$ .....(i)

And  $\frac{x+y}{2} = x + 30$

$y - x = 60$  ... .. (ii)

From (i) and (ii)

$y=240$

75% of second number=180

**S68. Ans.(a)**

**Sol.** Let the rate of simple interest for the 3<sup>rd</sup> year be x% per annum.

Total SI =  $\frac{2000 \times 15 \times 2}{100} + \frac{2000 \times x \times 1}{100}$

= Rs. (600 + 20x)

CI for 2 years =  $P \left(1 + \frac{R}{100}\right) \left(1 + \frac{R}{100}\right) - P$

=  $2000 \left(1 + \frac{15}{100}\right) \left(1 + \frac{15}{100}\right) - 2000$

= Rs 645

ATQ,

$\Rightarrow 600+20x-645=205$

$\Rightarrow 20x = 250 \Rightarrow x = 12.5\%$

**S69. Ans.(b)**

**Sol.** Let speed of boat in still water= x km/min

Speed of stream = y km/min

And distance = D km

ATQ,

$(x - y)16 = 12x$

$x = 4y$

Let Required time be 'T' min

ATQ,

$12x = T(x + y)$

$T = \frac{48y}{5y} = 9.6$  minutes

**Solutions (70-74):**

Students appeared in exactly two exams =  $150 - 20 = 130$

Students appeared in CRE exam =  $\frac{40}{100} \times 1000 = 400$

Students appeared in only CRE & GMAT = Students appeared in only CRE & CAT =  $\frac{400 - (280 + 20)}{2} = 50$

Students appeared in only GMAT & CAT =  $150 - (20 + 50 + 50) = 30$

Students appeared in CRE =  $280 + 50 + 50 + 20 = 400$

Students appeared in CAT =  $200 + 50 + 30 + 20 = 300$

Students appeared in only GMAT =  $1000 - (50 + 280 + 50 + 20 + 30 + 200) = 370$

Employees using GMAT =  $370 + 50 + 20 + 30 = 470$

**S70. Ans.(b)****Sol.** Students appeared in only GMAT & CAT = 30**S71. Ans.(e)****Sol.** Required percentage =  $\frac{370}{200} \times 100 = 185\%$ **S72. Ans.(a)****Sol.** Required ratio = 30:20 = 3:2**S73. Ans.(e)****Sol.** Required percentage =  $\frac{470-300}{300} \times 100 = 56.67\%$ **S74. Ans.(c)****Sol.** Students appeared in only one exam = 370 + 280 + 200 = 850**S75. Ans.(e)****Sol. I.**  $x^2 + 4x - 12 = 0$ 

$$x^2 + 6x - 2x - 12 = 0$$

$$x = -6, 2$$

**II.**  $2y^2 + 7y + 6 = 0$ 

$$2y^2 + 4y + 3y + 6 = 0$$

$$2y(y + 2) + 3(y + 2) = 0$$

$$y = -2, \frac{-3}{2}$$

 $\therefore$  No relation**S76. Ans.(d)****Sol. I.**  $x^2 + 12x + 35 = 0$ 

$$x^2 + 7x + 5x + 35 = 0$$

$$(x + 7)(x + 5) = 0$$

$$\therefore x = -5 \text{ or } -7$$

**II.**  $y^2 + 9y + 20 = 0$ 

$$y^2 + 5y + 4y + 20 = 0$$

$$(y + 5)(y + 4) = 0$$

$$y = -5, -4$$

$$\Rightarrow x \leq y$$

**S77. Ans.(b)****Sol. I.**  $x^2 - 15x + 54 = 0$ 

$$x^2 - 9x - 6x + 54 = 0$$

$$(x - 9)(x - 6) = 0$$

$$\therefore x = 9 \text{ or } 6$$

**II.**  $y^2 - 23y + 132 = 0$ 

$$y^2 - 11y - 12y + 132 = 0$$

$$(y - 11)(y - 12) = 0$$

$$y = 11 \text{ or } 12$$

$$\therefore x < y$$





**S78. Ans.(d)**

**Sol. I.**  $x^2 - 7x - 6x + 42 = 0$

$x(x - 7) - 6(x - 7) = 0$

$(x - 6)(x - 7) = 0$

$x = 6, 7$

**II.**  $y^2 - 8y - 7y + 56 = 0$

$y(y - 8) - 7(y - 8) = 0$

$(y - 8)(y - 7) = 0$

$y = 8, 7$

So,  $x \leq y$

**S79. Ans.(c)**

**Sol. I.**  $x = +8$

**II.**  $y = \pm 8$

So,  $x \geq y$

**S80. Ans.(c)**

**Sol. I.**  $2x^2 + 7x + 3 = 0$

$\Rightarrow x(2x + 1) + 3(2x + 1) = 0$

$\Rightarrow (x + 3)(2x + 1) = 0$

$\Rightarrow x = -3, -\frac{1}{2}$

**II.**  $2y^2 + 12y + 18 = 0$

$y^2 + 6y + 9 = 0$

$\Rightarrow (y + 3)(y + 3) = 0$

$\Rightarrow y = -3$

$\therefore x \geq y$



## IBPS RRB Clerk Prelims Previous Year Questions 2021

**Directions (1-5):** Study the following information and answer the questions given below:

An Uncertain number of persons sit in a row and all face north. S sits fifth from left end of the row. Only six persons sit between S and M. B sits immediate right of M and fourth to the right of P. Q is an immediate neighbour of S and sits fifth to the right of V. Three persons sit between B and D who is third from one of the extreme ends. The number of persons sit between M and T is same as the number of persons sit between A and M. A is in the left of T who is an immediate neighbour of D.

निम्नलिखित जानकारी का अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिये:

एक पंक्ति में अनिश्चित संख्या में व्यक्ति बैठे हैं और सभी का उत्तर की उन्मुख है। S पंक्ति के बाएं छोर से पांचवें स्थान पर बैठा है। S और M के बीच केवल छह व्यक्ति बैठे हैं। B, M के ठीक दायें और P के दाएं से चौथे स्थान पर बैठा है। Q, S का निकटतम पड़ोसी है और V के दाएं से पांचवें स्थान पर बैठा है। B और D के बीच तीन व्यक्ति बैठे हैं, जो किसी एक अंतिम छोर से तीसरे स्थान पर है। M और T के बीच बैठे व्यक्तियों की संख्या, A और M के बीच बैठने वाले व्यक्तियों की संख्या के समान है। A, T के बाएं ओर है जो D का निकटतम पड़ोसी है।

**Q1.** Find the number of persons sit in the row?

पंक्ति में बैठे व्यक्तियों की संख्या ज्ञात कीजिए।

- (a) 17
- (b) 18
- (c) 19
- (d) 20
- (e) None of these

इनमें से कोई नहीं

**Q2.** What is the position of A with respect to Q?

Q के सन्दर्भ में A का स्थान क्या है?

- (a) Immediate right  
ठीक दाएं
- (b) Second to the left  
बाएं से दूसरा
- (c) fourth to the right  
दाएं से चौथा
- (d) Second to the right  
दाएं से दूसरा
- (e) None of these

इनमें से कोई नहीं

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**Q3.** How many persons sit to the right of T?

T के दाएं कितने व्यक्ति बैठे हैं?

(a) Three

तीन

(b) Two

दो

(c) One

एक

(d) No one

कोई नहीं

(e) None of these

इनमें से कोई नहीं

**Q4.** Four of the following five are alike in a certain way and hence they form a group, find the one that does not belong to that group?

निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए वे एक समूह बनाते हैं, वह समूह ज्ञात कीजिए जो उस समूह से संबंधित नहीं है?

(a) D-T

(b) B-M

(c) P-A

(d) Q-S

(e) S-V

**Q5.** Who among the following is an immediate neighbour of P?

निम्नलिखित में से कौन P का निकटतम पड़ोसी है?

(a) Q

(b) A

(c) S

(d) M

(e) None of these

इनमें से कोई नहीं

**Directions (6-10):** In each of the questions below, two statements are given followed by two conclusions. You have to assume all the statements to be true even they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically does not follow from the information given in the statements:

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusion I and II follows.

नीचे दिए गए प्रत्येक प्रश्न में दो कथन और उसके बाद दो निष्कर्ष दिए गए हैं। आपको सभी कथनों को सत्य मानना है, भले ही वे सामान्य रूप से ज्ञात तथ्यों से भिन्न प्रतीत होते हों और फिर निर्णय लेना है कि कौन सा निष्कर्ष कथनों में दी गई जानकारी से तार्किक रूप से अनुसरण नहीं करता है:

- (a) यदि केवल निष्कर्ष I अनुसरण करता है।
- (b) यदि केवल निष्कर्ष II अनुसरण करता है।
- (c) यदि या तो निष्कर्ष I या II अनुसरण करता है।
- (d) यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।
- (e) यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q6. Statements:** Only a few mango are apple. Some orange are apple.

**Conclusions: I.** Some mango are orange.

**II.** All apple can be mango.

**कथन:** केवल कुछ आम सेब हैं। कुछ संतरा सेब हैं।

**निष्कर्ष: I.** कुछ आम संतरे हैं।

**II.** सभी सेब आम हो सकते हैं।

**Q7. Statements:** All game are over. All task are over.

**Conclusions: I.** No task is game.

**II.** Some game is task.

**कथन:** सभी गेम ओवर है। सभी टास्क ओवर हैं।

**निष्कर्ष: I.** कोई टास्क गेम नहीं है।

**II.** कुछ गेम टास्क है।

**Q8. Statements:** No circle is ratio. All ratio is radius.

**Conclusions: I.** Some radius are not circle.

**II.** All circle can be radius.

**कथन:** कोई सर्कल रेश्यो नहीं है। सभी रेश्यो रेडियस है।

**निष्कर्ष: I.** कुछ रेडियस सर्कल नहीं हैं।

**II.** सभी सर्कल रेडियस हो सकते हैं।

**Q9. Statements:** Only a few gate is door. No gate is window.

**Conclusions: I.** All gate can be door.

**II.** All door can be window.

**कथन:** केवल कुछ गेट डोर है। कोई गेट विंडो नहीं है।

**निष्कर्ष: I.** सभी गेट डोर हो सकते हैं।

**II.** सभी डोर विंडो हो सकते हैं।

**Q10. Statements:** Only history is math. Only a few English is history.

**Conclusions: I.** No math is English.

**II.** Some English can be math.

**कथन:** केवल हिस्ट्री मैथ है। केवल कुछ ही इंग्लिश हिस्ट्री है।

**निष्कर्ष: I.** कोई मैथ इंग्लिश नहीं है।

**II.** कुछ इंग्लिश मैथ हो सकते हैं।

**Directions (11-15):** Study the following information and answer the given questions:

Seven boxes A, B, C, D, E, F and G are placed one above the other in the stack. The number of boxes placed above and below G are the same. Two boxes are placed between G and D. E is placed immediate above G and F is placed immediately below G. A is not placed adjacent to box E and F. C is placed below G but not placed adjacent to box D.

निम्नलिखित जानकारी का अध्ययन करें और दिए गए प्रश्नों के उत्तर दें:

सात डिब्बे A, B, C, D, E, F और G को एक के ऊपर एक ढेर में रखे गए हैं। G के ऊपर और नीचे रखे गए डिब्बों की संख्या समान है। G और D के बीच दो डिब्बे रखे गए हैं। E को G के ठीक ऊपर रखा गया है और F को G के ठीक नीचे रखा गया है। A, डिब्बे E और डिब्बे F के आसन्न में नहीं रखे गए हैं। C, G के नीचे रखा गया है लेकिन डिब्बे D के आसन्न में नहीं रखा गया है।

**Q11.** Which among the following box is placed at the topmost position?

निम्नलिखित में से कौन सा डिब्बा सबसे ऊपर रखा गया है?

- (a) D
  - (b) C
  - (c) A
  - (d) B
  - (e) None of these
- इनमें से कोई नहीं

**Q12.** How many boxes are placed below C?

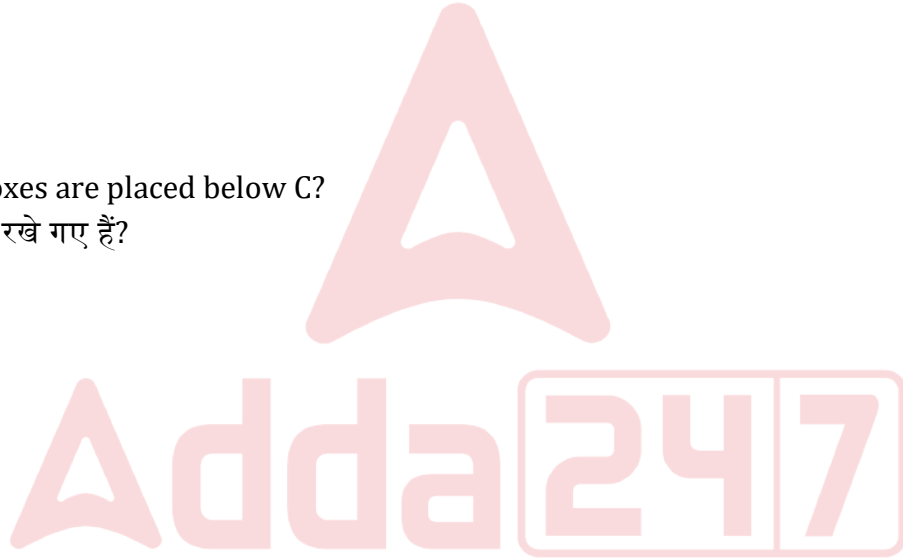
C के नीचे कितने डिब्बे रखे गए हैं?

- (a) None
- कोई नहीं
- (b) One
- एक
- (c) Two
- दो
- (d) Three
- तीन
- (e) More than three
- तीन से अधिक

**Q13.** Which among the following box is placed immediate below D?

निम्नलिखित में से कौन सा डिब्बा D के ठीक नीचे रखा गया है?

- (a) E
  - (b) F
  - (c) G
  - (d) B
  - (e) None of these
- इनमें से कोई नहीं



**Q14.** Four of the following five pairs are alike in a certain way and hence form a group, find the one that does not belong to that group?

निम्नलिखित पांच युग्म में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं, वह समूह ज्ञात कीजिए जो उस समूह से संबंधित नहीं है?

- (a) D-E
- (b) B-G
- (c) E-A
- (d) F-A
- (e) G-C

**Q15.** Which among the following box is placed exactly between F and A?

निम्नलिखित में से कौन सा डिब्बा F और A के ठीक मध्य में रखा गया है?

- (a) C
- (b) B
- (c) D
- (d) G
- (e) None of these

इनमें से कोई नहीं

**Direction (16-19):** In this question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusion based on the given statement and select the appropriate answer.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusion I and II follows

इस प्रश्न में कथनों में विभिन्न तत्वों के बीच संबंध को दर्शाया गया है। कथनों के बाद निष्कर्ष निकाले जाते हैं। दिए गए कथन के आधार पर निष्कर्ष का अध्ययन करें और उचित उत्तर का चयन करें।

- (a) यदि केवल निष्कर्ष I अनुसरण करता है
- (b) यदि केवल निष्कर्ष II अनुसरण करता है
- (c) यदि या तो निष्कर्ष I या II अनुसरण करता है
- (d) यदि न तो निष्कर्ष I और न ही II अनुसरण करता है
- (e) यदि निष्कर्ष I और II दोनों अनुसरण करते हैं

**Q16.** Statements/कथन:  $S > T \geq U > H = C < D$

Conclusions/निष्कर्ष: I.  $T > H$

II.  $H < D$

**Q17.** Statements/कथन:  $W < Z < O \leq P > B > M$

Conclusions/निष्कर्ष: I.  $P \geq Z$

II.  $B > O$

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**Q18.** Statements/कथन:  $P < Q > A \leq L < F = K$

Conclusions/निष्कर्ष: I.  $P > K$

II.  $K \geq P$

**Q19.** Statements/कथन:  $U > R > Y = J \geq D < T$

Conclusions/निष्कर्ष: I.  $Y > T$

II.  $T > J$

**Q20.** In a certain code language, FRIED is coded as UIRVW and PLANT is coded as KOZMG then, in the same manner, how SHOWN would be coded?

एक निश्चित कूट भाषा में FRIED को UIRVW के रूप में और PLANT को KOZMG के रूप में कूटबद्ध किया जाता है, तो उसी तरह, SHOWN को किस प्रकार कूटबद्ध किया जाएगा?

(a) TILD M

(b) HSLDO

(c) HSLDM

(d) HSPDM

(e) None of these

इनमें से कोई नहीं

**Directions (21-25):** Study the following information carefully and answer the questions given below.

Eight persons A, B, C, D, E, F, G and H are sitting around a circular table. All of them are facing inside. Two persons sit between E and C. F sits second to the right of C. G sits third to the left of D. D neither an immediate neighbor of F nor C. H sits second to the right of A who is not an immediate neighbor of B.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

आठ व्यक्ति A, B, C, D, E, F, G और H एक वृत्ताकार मेज के चारों ओर बैठे हैं। वे सभी अंदर की ओर उन्मुख होकर बैठे हैं। E और C के बीच दो व्यक्ति बैठे हैं। F, C के दायें से दूसरे स्थान पर बैठा है। G, D के बायें से तीसरे स्थान पर बैठा है। D न तो F का और न ही C का निकटतम पड़ोसी है। H, A के दायें से दूसरे स्थान पर बैठा है, जो B का निकटतम पड़ोसी नहीं है।

**Q21.** Who among the following sits second to the right of B?

निम्नलिखित में से कौन B के दायें से दूसरे स्थान पर बैठा है?

(a) H

(b) D

(c) A

(d) C

(e) None of these

इनमें से कोई नहीं

**Q22.** How many persons sit between A and F, when counted left of A?

A के बाएं से गिनने पर, A और F के मध्य कितने व्यक्ति बैठे हैं?

(a) Three

तीन

(b) One

एक

(c) More than three

तीन से अधिक

(d) Two

दो

(e) None

कोई नहीं

**Q23.** Who among the following sits opposite to C?

निम्नलिखित में से कौन C के विपरीत बैठा है?

(a) H

(b) A

(c) G

(d) B

(e) None of these

इनमें से कोई नहीं

**Q24.** Which of the following statement is true about G?

निम्नलिखित में से कौन सा कथन G के बारे में सत्य है?

(a) G is not an immediate neighbor of F

G, F का निकटतम पड़ोसी नहीं है

(b) C sits third to the left of G

C, G के बाएं से तीसरे स्थान पर बैठा है

(c) B sits opposite to G

B, G के विपरीत बैठा है

(d) An immediate neighbor of G faces D

G का निकटतम पड़ोसी D की ओर उन्मुख है

(e) Both (b) and (d)

दोनों (b) और (d)

**Q25.** Who among the following sits third to the left of H?

निम्नलिखित में से कौन H के बाएं से तीसरे स्थान पर बैठा है?

(a) D

(b) B

(c) E

(d) C

(e) None of these

इनमें से कोई नहीं



**Directions (26-27):** Read the following information carefully to answer the questions that follow:

Eight persons of a family living in a house. There are two married couples and three generations in this family. U is the parent of P, who is the only sister of T. S is the father-in-law of U. W is the only daughter of S. R is the son of Q who is the son-in-law of S. V is the father of T.

निम्नलिखित जानकारी को ध्यानपूर्वक पढ़कर प्रश्नों के उत्तर दीजिये:

एक परिवार के आठ व्यक्ति एक घर में रहते हैं। इस परिवार में दो विवाहित युगल और तीन पीढ़ियां हैं। U, P का पेरेट है, जो T की इकलौती बहन है। S, U का ससुर है। W, S की इकलौती पुत्री है। R, Q का पुत्र है, जो S का सन-इन-लॉ है। V, T का पिता है।

**Q26.** How R is related to P?

R, P से किस प्रकार संबंधित है?

(a) Nephew

नेफ्यू

(b) Cousin

कजिन

(c) Father

पिता

(d) Son

पुत्र

(e) None of these इनमें से कोई नहीं

इनमें से कोई नहीं

**Q27.** Who among the following is the brother-in-law of V?

निम्नलिखित में से कौन V का ब्रदर-इन-लॉ है?

(a) T

(b) U

(c) R

(d) Q

(e) None of these

इनमें से कोई नहीं

**Q28.** How many pairs of digits are there in the number '3614729', each of which have as many digits between them (both forward and backward direction) in the number as they have between them according to the number series?

संख्या '3614729' में अंकों के ऐसे कितने युग्म हैं, जिनमें से प्रत्येक के बीच उतने ही अंक हैं (आगे और पीछे दोनों दिशाओं में) जितने संख्या श्रृंखला के अनुसार उनके बीच होते हैं?

(a) Six

छः

(b) Four

चार

(c) Three

तीन

(d) Five

पाँच

(e) More than six

छः से अधिक

**Q29.** A person starts walking in the north direction and walks 8m, then takes two consecutive right turns and walks 10m and 8m respectively. From there he takes a left turn and walks 6m, then finally takes a right turn and walks 4m to reach his destination. What is the direction of his final position with respect to the initial position?

एक व्यक्ति उत्तर दिशा में चलना शुरू करता है और 8 मीटर चलता है, फिर वह दो बार लगातार दायें मुड़ता है और क्रमशः 10 मीटर और 8 मीटर चलता है। वहां से वह बायें मुड़ता है और 6 मीटर चलता है, फिर अंत में दायें मुड़ता है और अपने गंतव्य तक पहुंचने के लिए 4 मीटर चलता है। प्रारंभिक स्थिति के संबंध में उसकी अंतिम स्थिति की दिशा क्या है?

(a) North-west

उत्तर-पश्चिम

(b) South

दक्षिण

(c) South-east

दक्षिण-पूर्व

(d) North

उत्तर

(e) None of these

इनमें से कोई नहीं

**Q30.** The position of how many alphabets will remain unchanged if each of the alphabets in the word 'BROWNIE' is arranged in alphabetical order from left to right?

यदि शब्द 'BROWNIE' के प्रत्येक वर्ण को वर्णानुक्रम में बाएँ से दाएँ व्यवस्थित किया जाए तो कितने वर्णों की स्थिति अपरिवर्तित रहेगी?

(a) One

एक

(b) Three

तीन

(c) Two

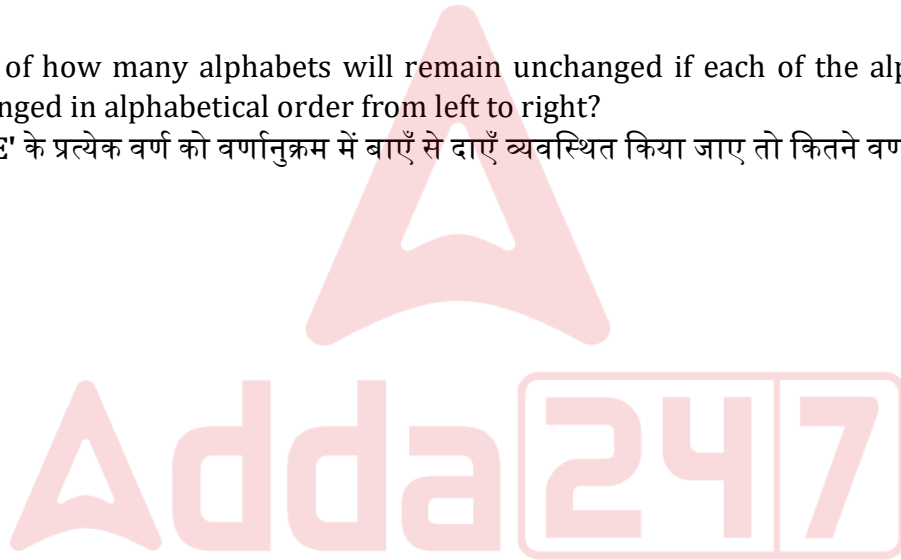
दो

(d) Four

चार

(e) None

कोई नहीं



**Directions (31-35):** Study the following information carefully and answer the questions given below.

Seven persons live in a seven-storey building. The ground floor is numbered as 1 and the topmost floor is numbered as 7. Four persons live between T and P, who lives below T's floor. Two persons live between S and P. V lives immediately above R's floor. More than three persons live between U and Q. U lives below V's floor.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिये और नीचे दिए गए प्रश्नों के उत्तर दीजिये।

सात व्यक्ति एक सात मंजिला इमारत में रहते हैं। भूतल की संख्या 1 है और सबसे ऊपरी मंजिल की संख्या 7 है। T और P के बीच चार व्यक्ति रहते हैं, जो T की मंजिल के नीचे रहता है। S और P के बीच दो व्यक्ति रहते हैं। V, R की मंजिल के ठीक ऊपर रहता है। U और Q के बीच तीन से अधिक व्यक्ति रहते हैं। U, V की मंजिल के नीचे रहता है।

**Q31.** Who among the following lives on the 6<sup>th</sup> floor?

निम्नलिखित में से कौन छठी मंजिल पर रहता है?

- (a) V
- (b) T
- (c) Q
- (d) S
- (e) None of these

इनमें से कोई नहीं

**Q32.** How many persons live between U and S?

U और S के मध्य कितने व्यक्ति रहते हैं?

- (a) One
- (b) Two
- (c) Four
- (d) Three
- (e) None

कोई नहीं

**Q33.** Who among the following lives just below the floor on which S lives?

निम्नलिखित में से कौन उस मंजिल के ठीक नीचे रहता है जिस पर S रहता है?

- (a) T
- (b) V
- (c) U
- (d) Q
- (e) None of these

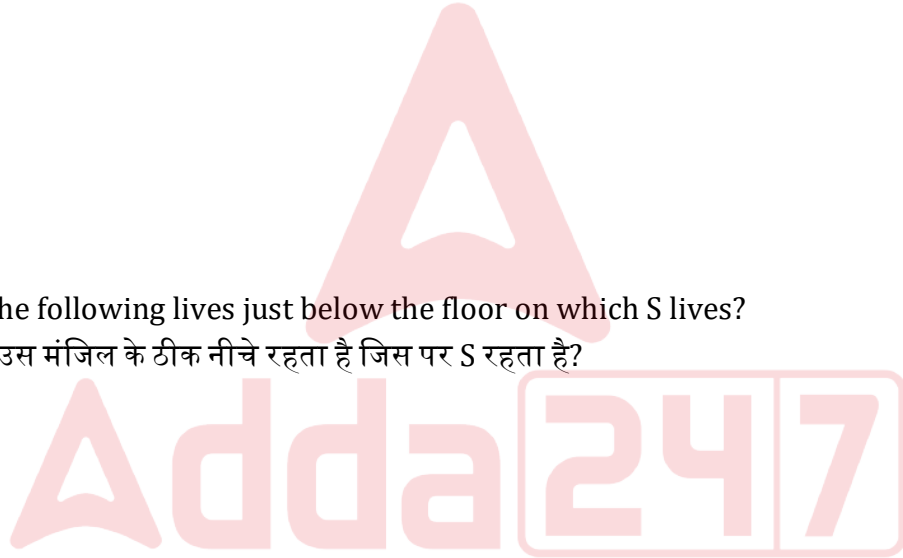
इनमें से कोई नहीं

**Q34.** The number of persons live between T and V is the same as the number of persons live between \_\_\_ and \_\_\_?

T और V के बीच रहने वाले व्यक्तियों की संख्या \_\_\_ और \_\_\_ के बीच रहने वाले व्यक्तियों की संख्या के समान है?

- (a) S, P
- (b) Q, V
- (c) P, U
- (d) R, T
- (e) None of these

इनमें से कोई नहीं



**Q35.** Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?

निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं इसलिए एक समूह बनाते हैं, निम्नलिखित में से कौन उस समूह से संबंधित नहीं है?

- (a) S
- (b) R
- (c) T
- (d) U
- (e) Q

**Direction (36-40):** Study the following alphanumeric series carefully and answer the questions given below:

M & U 6 L 7 © 1 K 8 % T 2 3 \$ C H 9 # G ϕ N R @ 5 4 W \* D

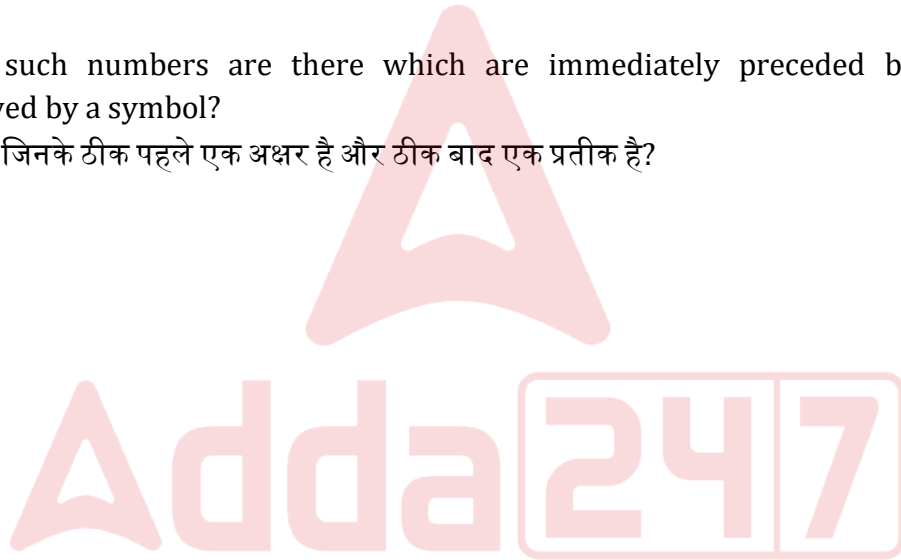
निम्नलिखित अक्षरांकीय श्रृंखला का ध्यानपूर्वक अध्ययन कीजिये और नीचे दिए गए प्रश्नों के उत्तर दीजिये:

M & U 6 L 7 © 1 K 8 % T 2 3 \$ C H 9 # G ϕ N R @ 5 4 W \* D

**Q36.** How many such numbers are there which are immediately preceded by an alphabet and immediately followed by a symbol?

ऐसी कितनी संख्याएँ हैं जिनके ठीक पहले एक अक्षर है और ठीक बाद एक प्रतीक है?

- (a) Three  
तीन
- (b) Two  
दो
- (c) One  
एक
- (d) Four  
चार
- (e) None  
कोई नहीं



**Q37.** Which of the following element is 9<sup>th</sup> to the right of the element that is 10<sup>th</sup> from the left end of the series?

निम्नलिखित में से कौन सा तत्व उस तत्व के दायें से 9वां है जो श्रृंखला के बायें छोर से 10वां है?

- (a) R
- (b) #
- (c) G
- (d) 9
- (e) None of these  
इनमें से कोई नहीं

**Q38.** How many such alphabets are there in the above arrangement each of which is immediately followed and preceded by a number?

उपरोक्त व्यवस्था में ऐसे कितने अक्षर हैं जिनके ठीक बाद और पहले एक संख्या है?

(a) One

एक

(b) None

कोई नहीं

(c) Two

दो

(d) Four

चार

(e) Three

तीन

**Q39.** Four of the following five are alike in a certain way based from a group; find the one that does not belong to that group?

निम्नलिखित पांच में से चार एक समूह के आधार पर एक निश्चित तरीके से समान हैं; वह चुनिए जो उस समूह से संबंधित नहीं है?

(a) UL©

(b) 8T3

(c) \$H#

(d) GN5

(e) R5W

**Q40.** If all alphabets are eliminated from the series then, which of the following element is 13<sup>th</sup> from the left end of the series?

यदि श्रृंखला से सभी अक्षर हटा दिए जाते हैं, तो निम्नलिखित में से कौन सा तत्व श्रृंखला के बायें छोर से 13वां है?

(a) 4

(b) 5

(c) ϕ

(d) @

(e) None of these

इनमें से कोई नहीं

**Direction (41 – 53):** What will come in the place of question (?) mark in following questions.

निम्नलिखित प्रश्नों में प्रश्नचिह्न (?) के स्थान पर क्या आएगा।

**Q41.**  $1\frac{2}{5} \div 1\frac{5}{16} \times ? = 4$

(a)  $3\frac{3}{4}$

(b)  $3\frac{1}{2}$

(c)  $3\frac{1}{3}$

(d)  $2\frac{3}{4}$

(e)  $4\frac{3}{4}$

**Q42.**  $272 \times 4.25 \div ? = 68$

- (a) 27
- (b) 23
- (c) 21
- (d) 17
- (e) 19

**Q43.**  $\left(\frac{3}{4}\right)^3 \times \left(\frac{2}{3}\right)^4 \div ? = \frac{1}{624}$

- (a) 72
- (b) 60
- (c) 64
- (d) 56
- (e) 52

**Q44.**  $\sqrt{324} \div \frac{3}{19} \times 87 = ?$

- (a) 9928
- (b) 9918
- (c) 9908
- (d) 9948
- (e) 9968

**Q45.**  $3685 - 4228 + 3120 \div 2 = ?$

- (a) 1007
- (b) 1027
- (c) 1017
- (d) 1117
- (e) 1037

**Q46.**  $35\% \text{ of } 260 - 24\% \text{ of } 35 = ?$

- (a) 82.6
- (b) 81.6
- (c) 82.8
- (d) 80.6
- (e) 79.6

**Q47.**  $1176 - 60 \times \frac{1}{4} = ?$

- (a) 1167
- (b) 1165
- (c) 1163
- (d) 1161
- (e) 1159



**Q48.**  $(? + 8^2) = 50\%$  of 193

- (a) 34.5
- (b) 30.5
- (c) 31.5
- (d) 36.5
- (e) 32.5

**Q49.**  $48\%$  of  $125 + ?^3 = 185$

- (a) 5
- (b) 4
- (c) 3
- (d) 7
- (e) 6

**Q50.**  $128.48 + ? = 7^3 - \sqrt{484}$

- (a) 196.52
- (b) 188.52
- (c) 192.52
- (d) 194.52
- (e) 186.52

**Q51.**  $(? \% \text{ of } 480) \div (4\% \text{ of } 540) = 5.6$

- (a) 27.0
- (b) 25.2
- (c) 21.6
- (d) 24.0
- (e) 23.4

**Q52.**  $(197 + 103)\% \text{ of } 45 - (8)^2 = 4 \times ? - 29$

- (a) 35
- (b) 15
- (c) 30
- (d) 25
- (e) 20

**Q53.**  $2000 \div 50 \times 3 + 5 = (?)^3$

- (a) 5
- (b) 8
- (c) 9
- (d) 2
- (e) 3

**Directions (54-58):** What will come in place of question mark (?) in the following series questions?

निम्नलिखित श्रृंखला के प्रश्नों में प्रश्नचिन्ह (?) के स्थान पर क्या आएगा?

**Q54.** 9, 14, 24, 41, 67, ?

- (a) 97
- (b) 89
- (c) 104
- (d) 110
- (e) 115

**Q55.** 7, 3.5, 3.5, 7, 28, ?

- (a) 280
- (b) 240
- (c) 150
- (d) 180
- (e) 224

**Q56.** 6, 5, 9, 26, ?, 514

- (a) 101
- (b) 103
- (c) 105
- (d) 108
- (e) 111

**Q57.** 6, 10, 15, 22, 32, ?

- (a) 46
- (b) 56
- (c) 66
- (d) 76
- (e) 64

**Q58.** 3, 17, 45, 87, ?, 213

- (a) 117
- (b) 175
- (c) 167
- (d) 143
- (e) 153





**Direction (59-63):** Table given below shows total number of orders of an item received by three people in four different months. Read the data carefully and answer the questions.

नीचे दी गई तालिका चार अलग-अलग महीनों में तीन लोगों को प्राप्त एक आइटम के ऑर्डर की कुल संख्या दर्शाती है। आकड़ों का ध्यानपूर्वक अध्ययन कीजिए और प्रश्नों के उत्तर दें।

People /लोग	May/मई	June/जून	July/जुलाई	August/अगस्त
A	68	112	96	119
B	84	64	80	75
C	72	88	118	63

**Q59.** Total orders received by A in May & July together are what percent more than total orders received by C in May & June together?

मई और जुलाई में मिलाकर A को प्राप्त कुल ऑर्डर, मई और जून में मिलाकर C को प्राप्त कुल ऑर्डर से कितने प्रतिशत अधिक हैं?

- (a) 2.5%
- (b) 5%
- (c) 1.5%
- (d) 4%
- (e) 3%

**Q60.** Find the difference between average number of orders received by all three in June and total orders received by A in August?

जून में तीनों को प्राप्त आर्डर की औसत संख्या तथा अगस्त में A को प्राप्त कुल आर्डर के बीच का अंतर ज्ञात कीजिए।

- (a) 37
- (b) 35
- (c) 27
- (d) 33
- (e) 31

**Q61.** Find the ratio of total orders received by A & B together in month of July to total orders received by B & C together in month of May?

जुलाई में A और B को प्राप्त कुल ऑर्डर का मई में B और C को प्राप्त कुल ऑर्डर से अनुपात ज्ञात कीजिए।

- (a) 44 : 37
- (b) 44 : 41
- (c) 44 : 39
- (d) 39 : 44
- (e) 44 : 47

**Q62.** If in the month of September total orders received by A is 12 more than total orders received by B & C together in August, then find total order received by C in July is what percent of total orders received by A in September?

यदि सितंबर में A को प्राप्त कुल ऑर्डर, अगस्त में B और C को प्राप्त कुल ऑर्डर से 12 अधिक है, तो जुलाई में C को प्राप्त कुल ऑर्डर, सितंबर में A को प्राप्त कुल ऑर्डर का कितना प्रतिशत है?

- (a)  $81\frac{2}{3}\%$
- (b)  $80\frac{2}{3}\%$
- (c)  $78\frac{2}{3}\%$
- (d)  $74\frac{2}{3}\%$
- (e)  $76\frac{2}{3}\%$

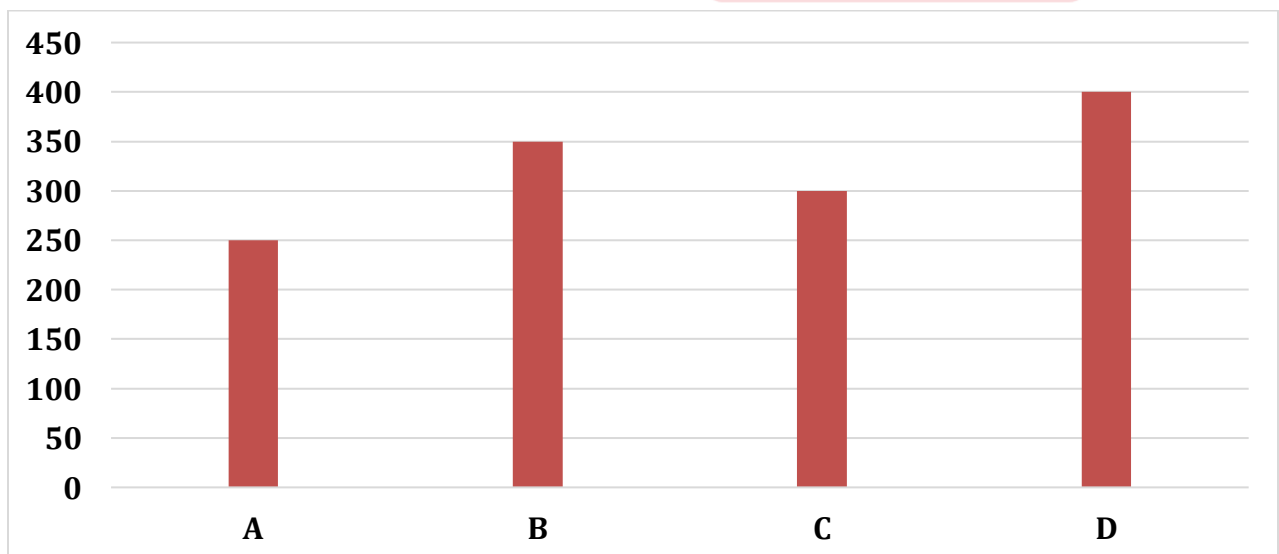
**Q63.** If total orders received by B & C together in month of September is  $\frac{7}{4}$ th of total order received by B in July and the ratio of total orders received by B to that of C in September is 9 : 5, then find the difference between orders received by B and C in month of September?

यदि सितंबर के महीने में B और C को प्राप्त कुल आर्डर, जुलाई में B द्वारा प्राप्त कुल आर्डर का  $\frac{7}{4}$  है तथा सितंबर में B को प्राप्त कुल आर्डर का C को प्राप्त कुल आर्डर अनुपात 9 : 5 है, तो सितंबर के महीने में B और C को प्राप्त आर्डर के बीच अंतर कितना है?

- (a) 40
- (b) 60
- (c) 30
- (d) 50
- (e) 70

**Direction (64 - 68):** Bar graph given below shows total number of animals in four different zoos. Read the data carefully and answer the questions.

नीचे दिया गया बार ग्राफ चार अलग-अलग चिड़ियाघरों में जानवरों की कुल संख्या को दर्शाता है। आकड़ों का ध्यानपूर्वक अध्ययन करें और प्रश्नों के उत्तर दें।



**Q64.** Total number of animals in zoo E are  $\frac{45}{6}\%$  more than that of in zoo D, then find total animals in zoo E are what percent more than that of in zoo A?

चिड़ियाघर E में जानवरों की कुल संख्या, चिड़ियाघर D की तुलना में  $\frac{45}{6}\%$  अधिक है, तो चिड़ियाघर E में कुल जानवरों की संख्या, चिड़ियाघर A में कुल जानवरों की संख्या से कितने प्रतिशत अधिक है?

- (a) 84%
- (b) 72%
- (c) 96%
- (d) 70%
- (e) 62%

**Q65.** Find difference between average number of animals in zoo A & B and total number of animals in zoo D?

चिड़ियाघर A और B में जानवरों की औसत संख्या और चिड़ियाघर D में जानवरों की कुल संख्या के बीच अंतर ज्ञात कीजिए।

- (a) 80
- (b) 75
- (c) 150
- (d) 50
- (e) 100

**Q66.** Total animals in zoo C are what percent of total animals in zoo A & B together?

चिड़ियाघर C में कुल जानवर, चिड़ियाघर A और B में मिलाकर कुल जानवरों का कितना प्रतिशत है?

- (a) 70%
- (b) 80%
- (c) 60%
- (d) 40%
- (e) 50%

**Q67.** If total animals in zoo G are 40% less than total number of animals in zoo C & D together, then find the ratio of total animals in zoo B to that of in zoo G?

यदि चिड़ियाघर G में कुल जानवर, चिड़ियाघर C और D में मिलाकर कुल जानवरों की संख्या से 40% कम हैं, तो चिड़ियाघर B में कुल जानवरों का चिड़ियाघर G में कुल जानवरों से अनुपात ज्ञात कीजिए।

- (a) 5 : 8
- (b) 6 : 5
- (c) 5 : 4
- (d) 5 : 7
- (e) 5 : 6

**Q68.** Find total number of animals in all four zoos?

चारों चिड़ियाघरों में जानवरों की कुल संख्या ज्ञात कीजिए।

- (a) 1100
- (b) 1400
- (c) 1500
- (d) 1300
- (e) 1200

**Q69.** Present age of a man is four times more than his son and four years ago the age of man was nine times of the age of his son. Find the present age of the man?

एक व्यक्ति की वर्तमान आयु उसके पुत्र से चार गुना अधिक है और चार वर्ष पहले व्यक्ति की आयु उसके पुत्र की आयु की नौ गुना थी। व्यक्ति की वर्तमान आयु ज्ञात कीजिए।

- (a) 40 years/वर्ष
- (b) 32 years/वर्ष
- (c) 36 years/वर्ष
- (d) 48 years/वर्ष
- (e) 54 years/वर्ष

**Q70.** Two pipes A & B individually fill an empty tank in 15 hours and 45 hours respectively. A pipe C can empty the same tank in 30 hours. If all three pipes opened together in the tank, then in how many hours the tank will be filled completely?

दो पाइप A और B एकल रूप से एक खाली टैंक को क्रमशः 15 घंटे और 45 घंटे में भरते हैं। एक पाइप C उसी टैंक को 30 घंटे में खाली कर सकता है। यदि टैंक में तीनों पाइप एकसाथ खोल दिए जाएं, तो टैंक कितने घंटे में पूरी तरह भर जाएगा।

- (a) 24 hours/वर्ष
- (b) 18 hours/वर्ष
- (c) 16 hours/वर्ष
- (d) 12 hours/वर्ष
- (e) 20 hours/वर्ष

**Q71.** A and B started a business by investing amount of Rs. 5000 & Rs. 15000 respectively. If after six months B left the business and the profit share of B is Rs. 600 after one year, then find the total profit?

A और B क्रमशः 5000 और 15000 रुपये की राशि का निवेश करके एक व्यवसाय शुरू करते हैं। यदि छह महीने के बाद B ने व्यवसाय छोड़ देता है और एक वर्ष के बाद B का लाभ हिस्सा 600 रु है, तो कुल लाभ ज्ञात कीजिए।

- (a) 900 Rs./रु.
- (b) 1250 Rs./रु.
- (c) 750 Rs./रु.
- (d) 1500 Rs./रु.
- (e) 1000 Rs./रु.

**Q72.** The ratio of milk to water in 60 liters mixture is 7 : 3. Find how much water should be mixed in the mixture so that quantity of milk becomes  $33\frac{1}{3}\%$  of resulting mixture?

60 लीटर मिश्रण में दूध और पानी का अनुपात 7 : 3 है। मिश्रण में कितना पानी मिलाया जाना चाहिए जिससे दूध की मात्रा परिणामी मिश्रण का  $33\frac{1}{3}\%$  हो जाए?

- (a) 80
- (b) 72
- (c) 68
- (d) 62
- (e) 66

**BILINGUAL**  
**IBPS RRB PO & Clerk 2023-24**  
**Complete Prelims + Mains**  
**Target Batch**  
12:30 PM to 3:30 PM | 5 PM to 7:30 PM

**Q73.** Average of four consecutive even numbers is 37 and average of four consecutive odd numbers is 30. Find difference between highest even number and second smallest odd number?

चार क्रमागत सम संख्याओं का औसत 37 है तथा चार क्रमागत विषम संख्याओं का औसत 30 है। अधिकतम सम संख्या और दूसरी न्यूनतम विषम संख्या के बीच का अंतर ज्ञात कीजिए।

- (a) 5
- (b) 13
- (c) 9
- (d) 11
- (e) 7

**Q74.** Speed of boat in upstream is 60% of the speed of boat in downstream. The speed of boat in still water is 6 km/hr more than the speed of stream. Find the total time taken by boat to cover 70 km in downstream and 30 km in upstream together?

धारा के प्रतिकूल नाव की चाल, धारा के अनुकूल नाव की चाल का 60% है। शांत जल में नाव की चाल धारा की चाल से 6 किमी/घंटा अधिक है। नाव द्वारा धारा के अनुकूल 70 किमी और धारा के प्रतिकूल 30 किमी की दूरी को मिलाकर कुल समय ज्ञात कीजिए।

- (a) 18 hours/घंटे
- (b) 10 hours/घंटे
- (c) 16 hours/घंटे
- (d) 12 hours/घंटे
- (e) 14 hours/घंटे

**Q75.** A train cross a pole in 25 seconds and a 240 meters long platform in 40 seconds. Find the length of the train?

एक रेलगाड़ी एक खम्भे को 25 सेकण्ड और 240 मीटर लम्बे प्लेटफार्म को 40 सेकण्ड में पार करती है। रेलगाड़ी की लंबाई ज्ञात कीजिए।

- (a) 250 m/मीटर
- (b) 200 m/मीटर
- (c) 300 m/मीटर
- (d) 400 m/मीटर
- (e) 350 m/मीटर

**Q76.** A alone can complete a work in 25 days and B alone can complete the same work in 15 days. If C is 60% less efficient than B, then find time taken by A and C together to complete the same work?

A अकेला एक कार्य को 25 दिनों में पूरा कर सकता है और B अकेला उसी कार्य को 15 दिनों में पूरा कर सकता है। यदि C, B से 60% कम कुशल है, तो A और C द्वारा मिलकर समान कार्य को पूरा करने में लिया गया समय ज्ञात कीजिए।

- (a) 12 days/दिन
- (b) 15 days/दिन
- (c) 16 days/दिन
- (d) 14 days/दिन
- (e) 11 days/दिन

**Q77.** A man sells a chair at Rs.960 and earns a profit of 20%. If the man wants to sell it at a profit of 40%, then at what price he should sell the chair?

एक व्यक्ति एक कुर्सी को 960 रुपये में बेचता है और 20% का लाभ अर्जित करता है। यदि व्यक्ति इसे 40% के लाभ पर बेचना चाहता है, तो उसे कुर्सी को किस कीमत पर बेचना चाहिए?

- (a) 1120 Rs./रु.
- (b) 1020 Rs./रु.
- (c) 1280 Rs./रु.
- (d) 1200 Rs./रु.
- (e) None of these / इनमें से कोई नहीं

**Q78.** A borrowed Rs. P from B at 20% p.a. on compound interest annually. If A paid total amount of Rs.34,560 to B for settle his debt after three years, then find value of P?

A, B से प्रतिवर्ष 20% की दर से P रु वार्षिक रूप से संयोजित ब्याज पर उधार लेता है। यदि A तीन वर्षों के बाद अपने ऋण का निपटान करने के लिए B को कुल 34,560 रुपये का भुगतान करता है, तो P का मान ज्ञात कीजिए।

- (a) 16,000
- (b) 24,000
- (c) 20,000
- (d) 15,000
- (e) 25,000

**Q79.** An amount is divided among A, B and C in the ratio of 1 : 4 : 3 respectively. If the amount received by C is Rs. 14,000 more than the amount received by A, then find the amount received by B?

एक राशि को A, B और C में क्रमशः 1:4:3 के अनुपात में विभाजित किया जाता है। यदि C द्वारा प्राप्त राशि, A को प्राप्त राशि से 14,000 रु. अधिक है, तो B को प्राप्त राशि ज्ञात कीजिए।

- (a) Rs. 21,000
- (b) Rs. 10,500
- (c) Rs. 10,000
- (d) Rs. 28,000
- (e) Rs. 13,500

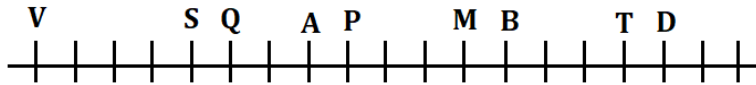
**Q80.** The area of a rectangle is equal to the area of a square whose diagonal is  $4\sqrt{6}$  cm. If the ratio of the length and width of the rectangle is 4:3, then find the perimeter of the rectangle?

एक आयत का क्षेत्रफल, एक वर्ग के क्षेत्रफल के बराबर है जिसका विकर्ण  $4\sqrt{6}$  सेमी है। यदि आयत की लंबाई और चौड़ाई का अनुपात 4:3 है, तो आयत का परिमाण ज्ञात कीजिए।

- (a) 20 cm/सेमी
- (b) 16 cm/सेमी
- (c) 28 cm/सेमी
- (d) 24 cm/सेमी
- (e) 32 cm/सेमी

# IBPS RRB Clerk Prelims Previous Year Questions 2021 (Solutions)

**Solutions (1-5):**

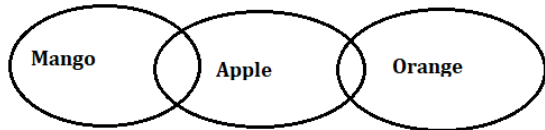


- S1. Ans.(c)
- S2. Ans.(d)
- S3. Ans.(a)
- S4. Ans.(e)
- S5. Ans.(b)

**Solutions (6-10):**

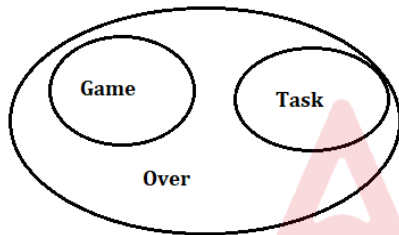
**S6. Ans.(b)**

**Sol.**



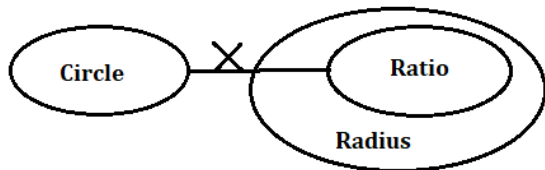
**S7. Ans.(c)**

**Sol.**



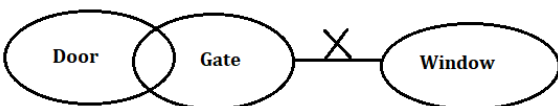
**S8. Ans.(e)**

**Sol.**



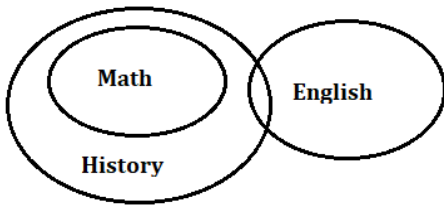
**S9. Ans.(d)**

**Sol.**



S10. Ans.(a)

Sol.



Solutions (11-15):

Boxes
D
B
E
G
F
C
A

S11. Ans.(a)

S12. Ans.(b)

S13. Ans.(d)

S14. Ans.(c)

S15. Ans.(a)

Solutions (16-19):

S16. Ans.(e)

Sol. I.  $T > H$  (True)

II.  $H < D$  (True)

S17. Ans.(d)

Sol. I.  $P \geq Z$  (False)

II.  $B > O$  (False)

S18. Ans.(c)

Sol. I.  $P > K$  (False)

II.  $K \geq P$  (False)

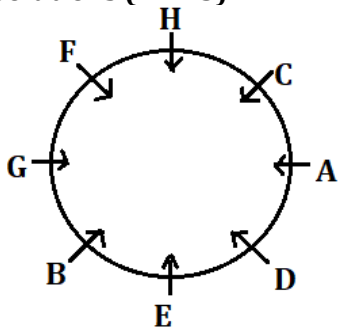
S19. Ans.(d)

Sol. I.  $Y > T$  (False)

II.  $T > J$  (False)

S20. Ans.(c)

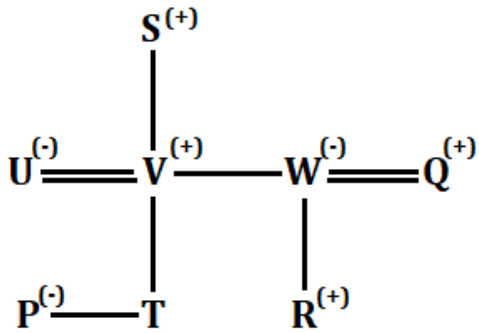
Solutions (21-25):





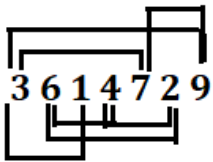
- S21. Ans.(b)
- S22. Ans.(c)
- S23. Ans.(d)
- S24. Ans.(e)
- S25. Ans.(a)

Solutions (26-27):

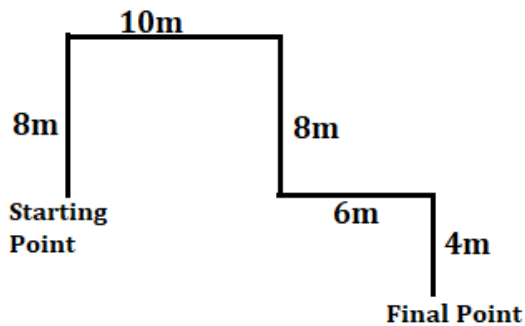


- S26. Ans.(b)
- S27. Ans.(d)

S28. Ans.(e)  
Sol.



S29. Ans.(c)  
Sol.



S30. Ans.(a)  
Sol. Given word- BROWNIE  
After Arrangement- BEINORW



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**Solutions (31-35):**

Floors	Persons
7	T
6	Q
5	S
4	V
3	R
2	P
1	U

**S31. Ans.(c)****S32. Ans.(d)****S33. Ans.(b)****S34. Ans.(a)****S35. Ans.(e)****Solutions (36-40):****S36. Ans.(a)****Sol.** L 7 ©, K 8 %, H 9 #**S37. Ans.(b)****S38. Ans.(c)****Sol.** 6 L 7, 1 K 8**S39. Ans.(d)****S40. Ans.(c)****Sol.** & 6 7 © 1 8 % 2 3 \$ 9 # ϕ @ 5 4 \***S41. Ans.(a)****Sol.**

$$\frac{7}{5} \times \frac{16}{21} \times ? = 4$$

$$4 \times ? = 15$$

$$? = 3 \frac{3}{4}$$

**S42. Ans.(d)****Sol.**

$$1156 \div ? = 68$$

$$? = 17$$

**S43. Ans.(e)**

**Sol.**

$$\frac{27}{64} \times \frac{16}{81} \div ? = \frac{1}{624}$$

$$\frac{1}{12} \div ? = \frac{1}{624}$$

$$? = 52$$

**S44. Ans.(b)**

**Sol.**

$$18 \times \frac{19}{3} \times 87 = ?$$

$$? = 9918$$

**S45. Ans.(c)**

**Sol.**

$$? = 5245 - 4228$$

$$? = 1017$$

**S46. Ans.(a)**

**Sol.**

$$\frac{35}{100} \times 260 - \frac{24}{100} \times 35 = ?$$

$$? = 91 - 8.4$$

$$? = 82.6$$

**S47. Ans.(d)**

**Sol.**

$$1176 - 15 = ?$$

$$? = 1161$$

**S48. Ans.(e)**

**Sol.**

$$? + 64 = 96.5$$

$$? = 32.5$$

**S49. Ans.(a)**

**Sol.**

$$\frac{48}{100} \times 125 + ?^3 = 185$$

$$?^3 = 185 - 60$$

$$?^3 = 125$$

$$? = 5$$



**S50. Ans.(c)**

**Sol.**

$$128.48 + ? = 343 - 22$$

$$128.48 + ? = 321$$

$$? = 192.52$$

**S51. Ans.(b)**

**Sol.**

$$\frac{?}{100} \times 480 \div \frac{4}{100} \times 540 = 5.6$$

$$4.8 \times ? \div 21.6 = 5.6$$

$$? = 25.2$$

**S52. Ans.(d)**

**Sol.**

$$\frac{300}{100} \times 45 - 64 = 4 \times ? - 29$$

$$135 + 29 - 64 = 4 \times ?$$

$$? = 25$$

**S53. Ans.(a)**

**Sol.**  $2000 \div 50 \times 3 + 5 = (?)^3$

$$? = 5$$

**S54. Ans.(c)**

**Sol.**

Pattern of series –

$$9 + 2^2 + 1 = 14$$

$$14 + 3^2 + 1 = 24$$

$$24 + 4^2 + 1 = 41$$

$$41 + 5^2 + 1 = 67$$

$$67 + 6^2 + 1 = 104$$

**S55. Ans.(e)**

**Sol.**

Pattern of series –

$$7 \times 0.5 = 3.5$$

$$3.5 \times 1 = 3.5$$

$$3.5 \times 2 = 7$$

$$7 \times 4 = 28$$

$$28 \times 8 = 224$$



**S56. Ans.(b)****Sol.** Pattern of series –

$$6 \times 1 - 1 = 5$$

$$5 \times 2 - 1 = 9$$

$$9 \times 3 - 1 = 26$$

$$26 \times 4 - 1 = 103$$

$$103 \times 5 - 1 = 514$$

**S57. Ans.(a)****Sol.** Pattern of series –

$$\begin{array}{ccccccccc}
 6 & & 10 & & 15, & & 22, & & 32, & & ? \\
 & 4 & & 5 & & 7 & & 10 & & 14 & \\
 & & 1 & & 2 & & 3 & & 4 & & 
 \end{array}$$

$$? = 32 + 14 = 46$$

**S58. Ans.(d)****Sol.** Pattern of series –

$$3 + 14 = 17$$

$$17 + 14 \times 2 = 45$$

$$45 + 14 \times 3 = 87$$

$$87 + 14 \times 4 = 143$$

$$143 + 14 \times 5 = 213$$

**S59. Ans.(a)****Sol.** Total orders received by A in May & July =  $68 + 96 = 164$ Total orders received by C in May & June =  $72 + 88 = 160$ 

$$\text{Required percentage} = \frac{164 - 160}{160} \times 100 = 2.5\%$$

**S60. Ans.(e)****Sol.** Total number of orders received by all three in June =  $112 + 64 + 88 = 264$ 

$$\text{Required difference} = 119 - \frac{264}{3} = 31$$

**S61. Ans.(c)****Sol.** Total orders received by A & B together in month of July =  $96 + 80 = 176$ Total orders received by B & C together in month of May =  $84 + 72 = 156$ 

$$\text{Required ratio} = 176 : 156 = 44 : 39$$

**S62. Ans.(c)****Sol.** Total orders received by A in month of September =  $(75 + 63) + 12 = 150$ 

$$\text{Required percentage} = \frac{118}{150} \times 100 = 78\frac{2}{3}\%$$

**S63. Ans.(a)**

**Sol.** Total orders received by B & C together in month of September =  $80 \times \frac{7}{4} = 140$

$$\text{Required difference} = 140 \times \frac{9-5}{(9+5)} = 40$$

**S64. Ans.(b)**

**Sol.** Total animals in zoo E =  $400 \times \frac{645}{600} = 430$

$$\text{Required percentage} = \frac{430-250}{250} \times 100 = 72\%$$

**S65. Ans.(e)**

**Sol.** Average number of animals in zoo A & B =  $\frac{250+350}{2} = 300$

$$\text{Required difference} = 400 - 300 = 100$$

**S66. Ans.(e)**

**Sol.** Total animals in zoo A & B together =  $250 + 350 = 600$

$$\text{Required percentage} = \frac{300}{600} \times 100 = 50\%$$

**S67. Ans.(e)**

**Sol.** Total animals in zoo G =  $(300 + 400) \times \frac{(100-40)}{100} = 420$

$$\text{Required ratio} = 350 : 420 = 5 : 6$$

**S68. Ans.(d)**

**Sol.** Required sum =  $250 + 350 + 300 + 400 = 1300$

**S69. Ans.(a)**

Let the present age of son =  $t$  years

So, present age of man =  $t + 4t = 5t$  years

ATQ –  

$$\frac{5t-4}{t-4} = \frac{9}{1}$$

$$5t - 4 = 9t - 36$$

$$4t = 32$$

$$t = 8 \text{ years}$$

So, present age of man = 40 years.

**S70. Ans.(b)**

**Sol.** Let total capacity of tank = 90 unit (LCM of 15, 45 & 30)

$$\text{Efficiency of pipe A} = \frac{90}{15} = 6 \text{ unit/hour}$$

$$\text{Efficiency of pipe B} = \frac{90}{45} = 2 \text{ unit/hour}$$

$$\text{Efficiency of pipe C} = \frac{90}{30} = 3 \text{ unit/hour (pipe C is an empty pipe)}$$

$$\text{So, required time} = \frac{90}{(6+2)-3} = 18 \text{ hours}$$

**S71. Ans.(e)**

**Sol.** Profit ratio of A to B =  $(5000 \times 12) : (15000 \times 6)$   
 $= 2 : 3$

Total profit =  $600 \times \frac{5}{3} = 1000 \text{ Rs.}$

**S72. Ans.(e)**

**Sol.** Total milk in initial mixture =  $60 \times \frac{7}{10} = 42 \text{ liters}$

Total water in initial mixture =  $60 \times \frac{3}{10} = 18 \text{ liters}$

Let x liter water added

$$\frac{42}{18+x} = \frac{1}{2}$$

$$18 + x = 84$$

$$x = 66$$

**S73. Ans.(d)**

**Sol.** Let four consecutive even numbers = x, (x + 2), (x + 4) & (x + 6)

ATQ –

$$4x + 12 = 148$$

$$x = 34$$

highest even number = 40

Let four consecutive odd numbers = n, n + 2, n + 4 & n + 6

Given,  $4n + 12 = 120$

$$n = 27$$

Second smallest odd number = 29

Required difference =  $40 - 29 = 11$

**S74. Ans.(d)**

**Sol.** Let the speed of boat in downstream be 5s km/hr

And the speed of boat in upstream =  $5s \times \frac{60}{100} = 3s \text{ km/hr}$

Speed of boat in still water =  $\frac{5s+3s}{2} = 4s \text{ km/hr}$

Speed of stream =  $\frac{5s-3s}{2} = s \text{ km/hr}$

ATQ,

$$3s = 6$$

$$s = 2$$

Required time =  $\frac{70}{10} + \frac{30}{6} = 12 \text{ hours}$

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**S75. Ans.(d)**

**Sol.** Let the length of the train be  $x$  meter and speed of train be  $y$  m/s.

ATQ,  $x = 25y$  \_\_\_\_ (i)

And,  $(x+240) = 40y$  \_\_\_\_ (ii)

From (i) and (ii) we get:

$$15y = 240$$

$$y = 16 \text{ m/s.}$$

$$\text{So, length of the train} = x = 25y = 400 \text{ m.}$$

**S76. Ans.(b)**

**Sol.** Let total work be 75 units (LCM of 25 & 15)

$$\text{So, efficiency of A} = \frac{75}{25} = 3 \text{ units/day}$$

$$\text{And, efficiency of B} = \frac{75}{15} = 5 \text{ units/day}$$

$$\text{Now, efficiency of C} = 5 \times \frac{40}{100} = 2 \text{ units/day}$$

$$\text{Required time} = \frac{75}{2+3} = 15 \text{ days}$$

**S77. Ans.(a)**

**Sol.** Let the cost price of the chair =  $5x$  Rs.

$$\text{So, the selling price of chair} = 5x \times \frac{120}{100} = 6x \text{ Rs.}$$

ATQ,

$$6x = 960$$

$$x = 160 \text{ Rs.}$$

$$\text{So, the cost price of chair} = 5 \times 160 = 800 \text{ Rs.}$$

$$\text{The selling price of the chair at 40\% profit} = 800 \times \frac{140}{100} = 1120 \text{ Rs.}$$

**S78. Ans.(c)**

**Sol.** ATQ,

$$P \times \left(1 + \frac{20}{100}\right)^3 = 34560$$

$$P = 34560 \times \frac{100}{120} \times \frac{100}{120} \times \frac{100}{120}$$

$$P = 20,000 \text{ Rs.}$$

**S79. Ans.(d)**

**Sol.**

Let the amount received by A, B and C be Rs.  $x$ , Rs.  $4x$  and Rs.  $3x$  respectively.

ATQ,

$$3x - x = 14000$$

$$x = \text{Rs. } 7000$$

$$\text{Now, amount received by B} = 7000 \times 4 = 28,000 \text{ Rs.}$$



**S80. Ans.(c)**

**Sol.** Let us assume the side of square is a cm.

$$\text{ATQ, } a\sqrt{2} = 4\sqrt{6}$$

$$a = 4\sqrt{3} \text{ cm}$$

Let us assume that the length and width of the rectangle are 4x cm and 3x cm respectively.

$$\text{ATQ, } 4x \times 3x = (4\sqrt{3})^2$$

$$x = 2 \text{ cm}$$

$$\text{So, Perimeter of rectangle} = 2(4x+3x) = 28 \text{ cm.}$$



## IBPS RRB PO Prelims Previous Year Questions 2020

**Q1. If 2 is subtracted from each even digit and 1 is added to each odd digit in the given number '2145673', then how many digits will appear more than one in the new number thus formed?**

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Directions (2-6): Study the following information carefully and answer the question given below-**

Eight persons live in a building of four floors such that ground floor is numbered 1 and floor above it is 2 and so on up to 4<sup>th</sup> floor. Each of the floor consist of 2 flats as flat-P, which is in west of flat Q. Flat-P of floor-2 is immediately above flat-P of floor-1 and immediately below flat-P of floor-3 and in the same way flat-Q of each floor follow same pattern.

A lives on an even numbered floor. A lives just above the flat of E. B lives to the west of E. One floor gap between D and C. H lives in the east of D. G lives on the 3<sup>rd</sup> floor. Both F and C live in the different flats.

**Q2. Who among the following lives just below the flat in which G lives?**

- (a) B
- (b) C
- (c) A
- (d) Both (b) and (c)
- (e) None of these

**Q3. How many floors gap between B and H?**

- (a) None
- (b) Two
- (c) One
- (d) Either (a) or (c)
- (e) Either (b) or (c)

**Q4. What is the direction of G with respect to E?**

- (a) South
- (b) North-east
- (c) North
- (d) East
- (e) North-west

**Q5. Which of the following floor does C lives?**

- (a) Floor-1
- (b) Floor-4
- (c) Floor-3
- (d) Floor-2
- (e) None of these



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**Q6. Which of the following is true regarding H?**

- (a) Floor 4 – Flat P
- (b) Floor3 – Flat Q
- (c) Floor 2- Flat P
- (d) Floor4- Flat Q
- (e) Floor1- Flat Q

**Direction (7-11): Study the following information carefully and answer the questions given below:**

In a certain code language

'plan to go exam' is coded as 'oj kr mn pc'

'exam today easy' is coded as 'si oj ly'

'plan your exam today' is coded as 'zm oj si mn '

'make your plan today' is coded as 'zm si mn rk'

**Q7. What is the code of 'make' as per the given code language?**

- (a) zm
- (b) mn
- (c) rk
- (d) pc
- (e) None of these

**Q8. What is the code of 'exam' as per the given code language?**

- (a) rk
- (b) pc
- (c) kr
- (d) oj
- (e) None of these

**Q9. What is the code of 'go' as per the given code language?**

- (a) pc
- (b) si
- (c) kr
- (d) either 'pc' or 'kr'
- (e) None of these

**Q10. What is the code of 'exam today' as per the given code language?**

- (a) si oj
- (b) mn kr
- (c) lv si
- (d) zm oj
- (e) None of these

**Q11. If 'easy to plan' is coded as 'mn ly pc' then what is the code of 'go' as per the given code language?**

- (a) pc
- (b) zm
- (c) kr
- (d) mn
- (e) None of these

**Q12. How many pairs of letters are there in the word "GRANDUAL" each of which have as many letters between them in the word as they have between them in the English alphabetical series??**

- (a) Three
- (b) Four
- (c) Two
- (d) One
- (e) Five

**Directions (13-15): Study the information carefully and answer the questions given below.**

Point P is 26m west of point S. Point G is 52m north of point P. Point M is 39m east of point G and point K is 13m south of point G. Point H is 39m north of point S.

**Q13. In which direction point P with respect to point M?**

- (a) South
- (b) South-east
- (c) North-east
- (d) East
- (e) None of these

**Q14. What is the shortest distance between point K and point H?**

- (a) 13m
- (b) 26m
- (c) 39m
- (d) 25m
- (e) None of these

**Q15. If Point Z is 13m north of point H, then what is the distance between point M and point Z?**

- (a) 13m
- (b) 26m
- (c) 39m
- (d) 25m
- (e) None of these

**Directions (16-20): Study the following information carefully and answer the question given below-**

Seven persons D, G, P, L, J, U and Q are sitting in a row facing to the north. They all have of different ages. D sits 3<sup>rd</sup> from one of the extreme ends of the row. Q sits 2<sup>nd</sup> to the right of D. The number of persons sit to the left of Q is same as the number of persons sit to the right of G, who is 20 years old. P sits 4<sup>th</sup> to the left of the one who is 35 years old. Q is not 35 years old. Total age of immediate neighbours of D is 75 years. J is 30 years old. P is 20 year older than one of his immediate neighbours. U sits to the right of L, who sits immediate to the left of the one who is 25 years old. Q is 5 year younger than P.

**Q16. The number of persons sit between L and Q is same as the number of persons sit between P and \_\_\_?**

- (a) D
- (b) G
- (c) U
- (d) Q
- (e) None of these

**Q17. What is the position of J with respect to Q?**

- (a) 2<sup>nd</sup> to the left
- (b) Immediate left
- (c) Immediate right
- (d) 4<sup>th</sup> to the left
- (e) 3<sup>rd</sup> to the right

**Q18. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?**

- (a) P
- (b) G
- (c) J
- (d) L
- (e) U

**Q19. Who among the following is 40 years old?**

- (a) L
- (b) P
- (c) D
- (d) U
- (e) None of these

**Q20. Which of the following statement is true?**

- (a) J sits to the right of L
- (b) D sits 3<sup>rd</sup> to the right of G
- (c) P sits at one of the extreme ends
- (d) None is true
- (e) Q sits immediate right of the one who is 35 years old

**Q21. Study the following information carefully and answer the given questions.**

Six persons i.e. P, Q, R, S, T and U was born on different days of the same week starting from Monday to Saturday, but not necessarily in the same order. P was born on Friday. Two persons were born between U and P. One person was born between R and S. If T was born immediate before S, then who among the following person was born on Wednesday?

- (a) U
- (b) R
- (c) S
- (d) T
- (e) None of these

**Directions (22-26): Study the following information carefully and answer the question given below-**

Ten boxes are placed one above the other. Four boxes are placed between J and M. Two boxes are placed between J and K, which placed above of the J. L is placed just below K. The number of boxes between L and M is same the number of boxes between M and Q. T is placed just above Q. Y is placed just above O. X is adjacent to M. P is placed below X.

**Q22. How many boxes are placed between O and L?**

- (a) One
- (b) More than Five
- (c) Four
- (d) Three
- (e) Two

**Q23. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?**

- (a) T-Y
- (b) X-L
- (c) K-P
- (d) Q-O
- (e) M-Q

**Q24. Which of the following statement is true?**

- (a) L is 3<sup>rd</sup> from the topmost position
- (b) Two boxes placed between K and M
- (c) Q is above P
- (d) T is placed at bottommost position
- (e) Three boxes placed between Y and M

**Q25. What is the position of Y from the bottommost?**

- (a) Seven
- (b) Eight
- (c) Six
- (d) Five
- (e) Three

**Q26. If T and O interchange their positions then which among the following box is placed just below O?**

- (a) Y
- (b) X
- (c) K
- (d) Q
- (e) None of these

**Directions (27-31): Study the following information carefully and answer the question given below-**

A certain number of persons sit in a row facing to the north direction. L sits 3<sup>rd</sup> to the left of M. Five persons sit between M and N. J sits immediate to the right of M. Three persons sit between Q and J. Q does not sit next to N. N is 7<sup>th</sup> from one of the ends. The number of persons sit to the right of Q is four more than the persons who sit to the left of N. K sits 2<sup>nd</sup> from one of the ends and sit to the right of M.

**Q27. How many persons sit in the above arrangement?**

- (a) 25
- (b) 26
- (c) 28
- (d) 24
- (e) None of these

**Q28. If two persons sit between X and N, then what is the position of X with respect to L?**

- (a) 4<sup>th</sup> to the left
- (b) 6<sup>th</sup> to the left
- (c) 5<sup>th</sup> to the right
- (d) 3<sup>rd</sup> to the left
- (e) 7<sup>th</sup> to the left

**Q29. How many persons sit between L and J?**

- (a) Five
- (b) None of these
- (c) Seven
- (d) Four
- (e) Three

**Q30. What is the position of L with respect to Q?**

- (a) 8<sup>th</sup> to the right
- (b) 8<sup>th</sup> to the left
- (c) 6<sup>th</sup> to the right
- (d) 5<sup>th</sup> to the left
- (e) None of these

**Q31. How many persons sit to the right of the one, who sits immediate left of J?**

- (a) Ten
- (b) Seven
- (c) None of these
- (d) Eight
- (e) Eleven

**Directions (32-35): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q32. Statements:**  $Z > O = G < I \leq S > P$

**Conclusions:** I.  $S > O$       II.  $P > G$

**Q33. Statements:**  $K \geq M > W \geq T \leq Y < Q$

**Conclusions:** I.  $T < Q$       II.  $T < K$

**Q34. Statement:**  $J \leq V < R > M, L > M = I \geq H$

**Conclusions:** I.  $V \geq H$       II.  $H \leq M$

**Q35. Statement:**  $I = H \geq B \geq N < D > L$

**Conclusions:** I.  $B < N$       II.  $L > H$

**Directions (36-40): Study the following information carefully and answer the question given below-**

Nine persons sit around a circular table. Some of them are facing to the centre while some are facing outside the centre. C sits 2<sup>nd</sup> to the right of A, who faces inside. Two persons sit between C and G. J sits 3<sup>rd</sup> to the left of G. L sits 2<sup>nd</sup> to the left of J, who does not sit next to C. B sits 3<sup>rd</sup> to the right of L and is an immediate neighbour of P. K sits 4<sup>th</sup> to the right of H, who does not sit near J. Both B and P face same direction as A. C and G face opposite direction to each other. K does not face outside.



**Q36. What is the position of P with respect to K?**

- (a) 3<sup>rd</sup> to the right
- (b) 2<sup>nd</sup> to the left
- (c) Immediate left
- (d) 3<sup>rd</sup> to the left
- (e) 5<sup>th</sup> to the right

**Q37. How many persons sit between J and H, when counted from the left of H?**

- (a) Five
- (b) Six
- (c) Four
- (d) One
- (e) Three

**Q38. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?**

- (a) C-H
- (b) L-K
- (c) B-J
- (d) H-L
- (e) B-P

**Q39. How many persons sit between G and H, when counted from the left of G?**

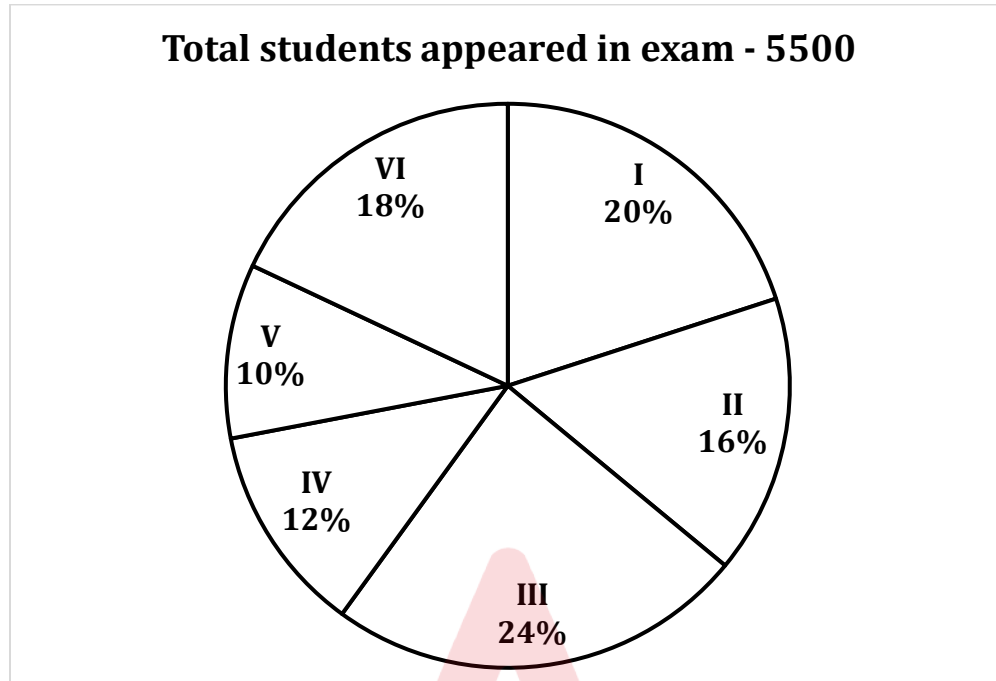
- (a) Three
- (b) Five
- (c) Two
- (d) Four
- (e) None of these

**Q40. How many persons face outside from the centre?**

- (a) Three
- (b) Four
- (c) None of these
- (d) Six
- (e) Five



Directions (41-46): Pie chart shows the percentage distribution of total students appeared in six different shifts of an exam. Study the pie chart given below and answer the following questions.



**Q41. Find average number of students appeared in shift I, II & IV of the exam.**

- (a) 1040
- (b) 900
- (c) 720
- (d) 1140
- (e) 880

**Q42. Find the central angle for students appeared in shift II of the examination.**

- (a)  $64.2^\circ$
- (b)  $48^\circ$
- (c)  $57.6^\circ$
- (d)  $43.6^\circ$
- (e)  $52.8^\circ$

**Q43. Find total number of students appeared in shift V & VI together of the examination.**

- (a) 1740
- (b) 1600
- (c) 1820
- (d) 1960
- (e) 1540

**Q44. Students appeared in shift III & IV together of the examination are what percent more or less than students appeared in shift I of the examination?**

- (a) 90%
- (b) 80%
- (c) 70%
- (d) 50%
- (e) 60%

**Q45. Find ratio of students appeared in shift IV & VI together of the examination to students appeared in shift II & III together of the examination.**

- (a) 3:4
- (b) 5:7
- (c) 4:3
- (d) 7:5
- (e) None of the above.

**Q46. Students appeared in shift I & VI together of the examination are how much more or less than students appeared in shift III & V together of the examination?**

- (a) 330
- (b) 150
- (c) 360
- (d) 280
- (e) 220

**Q47. A vessel contains mixture of milk and water in the ratio of 7:1 respectively. 24 liters mixture is removed from the vessel and if the quantity of remaining milk in the vessel is 56 liters, then find quantity of water in the vessel initially.**

- (a) 11 liters
- (b) 15 liters
- (c) 12 liters
- (d) 9 liters
- (e) 8 liters

**Q48. A & B together can complete a piece of work in 9 days. Time taken by A alone to complete the same work is 7.5 days less than time taken by B alone to complete the same work. In how many days B alone will complete  $\frac{2}{9}$  of the work?**

- (a) 8 days
- (b) 6 days
- (c) 7 days
- (d) 5 days
- (e) 4 days

**Q49. Ratio of ages of A and B, 4 years later is 8:9 respectively. If average of present ages of A & B is 47 years, then find difference in present ages of A & B.**

- (a) 5 years
- (b) 6 years
- (c) 3 years
- (d) 2 years
- (e) 4 years

**Q50. There are 75% boys out of total students (boys + girls) in a school and 39% of the total students of the school went on a picnic. If 32% of the total boys went on a picnic, then find what percent of total girls went on a picnic?**

- (a) 60%
- (b) 90%
- (c) 75%
- (d) 80%
- (e) 50%

**Q51. Number of passed students in an exam in section A & B are 240 & 210 respectively. If in section A 40% of the total students got failed and in section B 30% of the total students got failed, then find difference between total number of students in section A & B.**

- (a) 40
- (b) 80
- (c) 150
- (d) 120
- (e) 100

**Directions (52-56): In the given questions, two equations (I) & (II) are given. You have to solve both the equations and mark the answer accordingly.**

**Q52. I.**  $x^2 + 9x + 20 = 0$

**II.**  $8y^2 - 15y + 7 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q53. I.**  $x^2 - 11x + 30 = 0$

**II.**  $y^2 + 12y + 36 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

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**Q54. I.**  $x^2 + 13x + 40 = 0$

**II.**  $y^2 + 7y + 10 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q55. I.**  $x^2 - 20x + 91 = 0$

**II.**  $y^2 + 16y + 63 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q56. I.**  $x^2 - x - 12 = 0$

**II.**  $y^2 + 5y + 6 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Directions (57-62):** Study the table given below and answer the following questions.

Table gives information about total number of students in 3 different schools in 1999 & 2000 and also gives information about total number of girls in these 3 schools in 1999 & 2000.

School	Year			
	1999		2000	
	Total students	Total Girls	Total students	Total girls
A	720	360	900	450
B	360	180	600	180
C	450	270	400	120

**Note:** Total students in any school in any year = Total (Boys + Girls) in that school in that year.

**Q57.** If average number of students in school A in 1999, 2000 & 2001 are 700, then find total number of students in school A in 2001.

- (a) 540
- (b) 480
- (c) 420
- (d) 600
- (e) 360

**Q58. Number of girls in school – A & B together in 2000 are what percent more or less than total number of students in school – B & C together in 2000?**

- (a) 27%
- (b) 42%
- (c) 37%
- (d) 30%
- (e) 45%

**Q59. Find total number of boys in school – A, B & C together in 1999.**

- (a) 720
- (b) 640
- (c) 680
- (d) 760
- (e) 800

**Q60. Average number of students in school – A, B & C in 1999 are what percent of total students in school – B in 2000?**

- (a) 95%
- (b) 85%
- (c) 75%
- (d) 55%
- (e) 65%

**Q61. Find ratio of number of boys in school – B in 2000 to number of boys in school – C in 2000.**

- (a) 5:4
- (b) 4:5
- (c) 2:3
- (d) 3:2
- (e) None of the above.

**Q62. Total number of girls in school – A, B & C together in 1999 are how much more or less than total number of girls in school – A, B & C together in 2000?**

- (a) 140
- (b) 60
- (c) 180
- (d) 90
- (e) 100

**Directions (63-67): In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.**

- (a) If Quantity I > Quantity II
- (b) If Quantity I < Quantity II
- (c) If Quantity I  $\geq$  Quantity II
- (d) if Quantity I  $\leq$  Quantity II
- (e) if Quantity I = Quantity II or no relation can be established

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**Q63. Quantity I:** Profit earned on selling an article at Rs. 450 at 20% profit

**Quantity II:** Cost price of the article which is sold at Rs.84 on 20% profit

**Q64. In a village there are 60% males and rest are females. 30% of total male are illiterate and 25% of total female are illiterate. Number of illiterate males is 1152.**

**Quantity I:** Literate females in the village.

**Quantity II:** 1940

**Q65. A man invested Rs. P at 12% p.a. on simple interest for two years.**

**Quantity I:** If at the end of second year he gets Rs.1200 as interest, then find Rs.P.

**Quantity II:** Rs.6000

**Q66. Ploughing cost of a rectangular field is Rs.288 at the rate of Rs.3 per square meter. Length of the field is 4 meters more than the width of field.**

**Quantity I:** Length of rectangular field.

**Quantity II:** 12 meters.

**Q67. Quantity I:** Sum of present ages of Shivam and Prashant is 32 years and Shivam is 8 years older than Prashant. Find present age of Prashant.

**Quantity II:** 15 years.

**Q68. 'A' invested Rs.4000 and 'B' invested Rs.1000 more than A. After eight months 'C' invested Rs.3000. If at the end of the year 'C' gets profit of Rs.700, then find the total profit.**

(a) Rs.7000

(b) Rs.8400

(c) Rs.5600

(d) Rs.8800

(e) Rs.6400

**Q69. 440 meters long train passes a platform in 80 seconds. If speed of train is increased by 3 m/sec, then it crosses a pole in 22 seconds. Find the length of platform.**

(a) 720m

(b) 840m

(c) 700m

(d) 920m

(e) 900m

**Q70. Selling price of an article becomes Rs.2160 after giving two successive discounts of x% and 25% and marked price of article is Rs.3600. Find the cost price of article if there is a profit of x% on selling the article after giving two successive discounts.**

(a) Rs. 1720

(b) Rs.1500

(c) Rs.1600

(d) Rs.1800

(e) Rs.1900

**Q71. Three are 5 green balls, 7 blue balls and 3 red balls in a bag. If 2 balls are chosen randomly from the bag, then find the probability that at least one ball is green ball.**

- (a)  $\frac{1}{9}$
- (b)  $\frac{2}{7}$
- (c)  $\frac{3}{8}$
- (d)  $\frac{3}{5}$
- (e)  $\frac{4}{7}$

**Q72. Speed of boat in still water is six times of speed of stream. If boat covers 210 km in upstream in 7 hours, then find the downstream speed of boat?**

- (a) 42 km/hr.
- (b) 36 km/hr.
- (c) 30 km/hr.
- (d) 32 km/hr.
- (e) 24 km/hr.

**Q73. Length of rectangle 'A' is 125% of its breadth and area of rectangle 'A' is 1280 cm<sup>2</sup>. If width of rectangle 'A' is half of the side of a square, then find perimeter of square.**

- (a) 72m
- (b) 64m
- (c) 84m
- (d) 96m
- (e) 60m

**Q74. The average weight of a class of 45 girls is 53 kg. It was later found that weight of two girls was read as 49 kg and 57 kg instead of 45 kg and 52 kg. Find the actual average weight of the class.**

- (a) 54 kg
- (b) 53.40 kg
- (c) 50.6 kg
- (d) 52.80 kg
- (e) 51.5 kg

**Directions (75-80): Find the value of (?) in the following number series.**

**Q75. 1.5, 3, 12, 72, 576, ?**

- (a) 5480
- (b) 5620
- (c) 5580
- (d) 5340
- (e) 5760



**Q76.** 80, 66, 85, 61, 90, ?

- (a) 50
- (b) 56
- (c) 64
- (d) 60
- (e) 63

**Q77.** 163, ?, 43, 23, 13, 8

- (a) 92
- (b) 83
- (c) 78
- (d) 54
- (e) 69

**Q78.** 150, 152, 157, 167, 184, ?

- (a) 229
- (b) 245
- (c) 232
- (d) 210
- (e) 206

**Q79.** 3.5, 2.5, 3, 6, 20, ?

- (a) 95
- (b) 80
- (c) 65
- (d) 75
- (e) 90

**Q80.** 6300, ?, 525, 105, 17.5, 2.5

- (a) 2400
- (b) 2100
- (c) 4200
- (d) 5200
- (e) 3600



## IBPS RRB PO Prelims Previous Year Questions 2020 (Solutions)

S1. Ans.(c)

Sol.

2 1 4 5 6 7 3

0 2 2 6 4 8 4

Solutions (2-6):

Floors	Flat-P	Flat-Q
4	D	H
3	G	F
2	C	A
1	B	E

S2. Ans.(b)

S3. Ans.(b)

S4. Ans.(e)

S5. Ans.(d)

S6. Ans.(d)

Solutions (7-11):

Words	Codes
Plan	mn
To	kr/pc
Go	pc/kr
Exam	oj
Easy	ly
Today	si
Your	zm
Make	rk

S7. Ans.(c)

S8. Ans.(d)

S9. Ans.(d)

S10. Ans.(a)

S11. Ans.(c)

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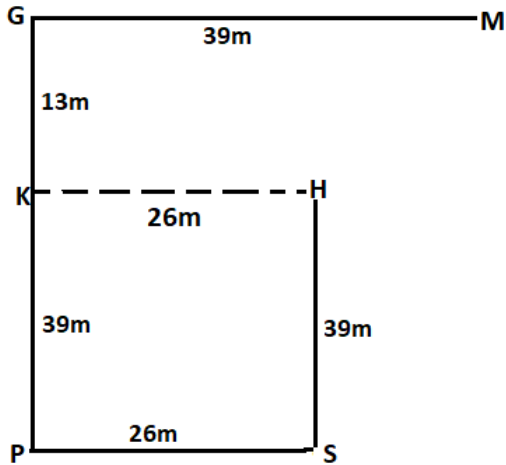
**210+ TOTAL TESTS**

S12. Ans.(c)

Sol.



Solutions (13-15):

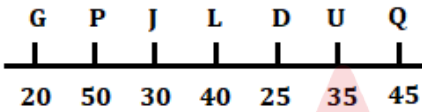


S13. Ans.(e)

S14. Ans.(b)

S15. Ans.(a)

Solutions (16-20):



S16. Ans.(a)

S17. Ans.(d)

S18. Ans.(e)

S19. Ans.(a)

S20. Ans.(e)

S21. Ans.(d)

Sol.

Days	Persons
Monday	Q
Tuesday	U
Wednesday	T
Thursday	S
Friday	P
Saturday	R

**Solutions (22-26):**

Boxes
T
Q
Y
O
M
X
K
L
P
J

**S22. Ans.(d)**

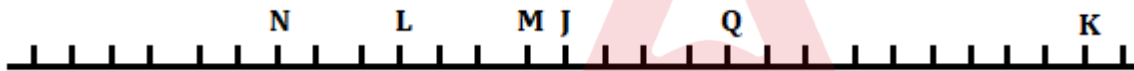
**S23. Ans.(e)**

**S24. Ans.(c)**

**S25. Ans.(b)**

**S26. Ans.(d)**

**Solutions (27-31):**



**S27. Ans.(c)**

**S28. Ans.(b)**

**S29. Ans.(e)**

**S30. Ans.(b)**

**S31. Ans.(c)**

**S32. Ans.(a)**

**Sol. I.**  $S > O$  (True)

**II.**  $P > G$  (False)

**S33. Ans.(e)**

**Sol. I.**  $T < Q$  (True)

**II.**  $T < K$  (True)

**S34. Ans.(b)**

**Sol. I.**  $V \geq H$  (False)

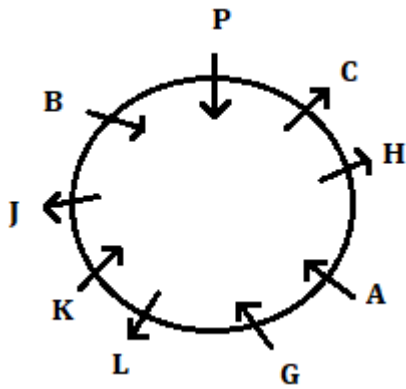
**II.**  $H \leq M$  (True)

**S35. Ans.(d)**

**Sol. I.**  $B < N$  (False)

**II.**  $L > H$  (False)

**Solutions (36-40):**



**S36. Ans.(d)**

**S37. Ans.(e)**

**S38. Ans.(d)**

**S39. Ans.(e)**

**S40. Ans.(b)**

**S41. Ans.(e)**

**Sol.** Required average =  $\frac{1}{3} \times \left( 5,500 \times \frac{20+16+12}{100} \right) = 880$

**S42. Ans.(c)**

**Sol.** Required angle =  $\frac{16}{100} \times 360^\circ = 57.6^\circ$

**S43. Ans.(e)**

**Sol.** Required number of students =  $5,500 \times \frac{10+18}{100} = 1,540$

**S44. Ans.(b)**

**Sol.** Students appeared in shift III & IV together of the examination =  $5,500 \times \frac{(24+12)}{100} = 1,980$

Students appeared in shift I of the examination =  $5,500 \times \frac{20}{100} = 1,100$

Required percentage =  $\frac{1980-1100}{1100} \times 100 = 80\%$

Or, required percentage =  $\frac{(24+12)-20}{20} \times 100 = 80\%$

**S45. Ans.(a)**

**Sol.** Students appeared in shift IV & VI together of the examination =  $5,500 \times \frac{12+18}{100} = 1,650$

Students appeared in shift II & III together of the examination =  $5,500 \times \frac{16+24}{100} = 2,200$

Required ratio =  $\frac{1650}{2200} = 3:4$

Or required ratio =  $\frac{(12+18)}{(16+24)} = 3 : 4$

**S46. Ans.(e)**

**Sol.** Students appeared in shift I & VI together of the examination =  $5,500 \times \frac{20+18}{100} = 2,090$

Students appeared in shift III & V together of the examination =  $5,500 \times \frac{10+24}{100}$   
 = 1,870

Required difference =  $2090 - 1870 = 220$

**S47. Ans.(a)**

**Sol.** ATQ,

Let quantity of milk and water in the vessel initially be  $7x$  liters &  $x$  liters respectively.

ATQ,

$$\left(7x - 24 \times \frac{7x}{8x}\right) = 56$$

$$x = 11$$

**S48. Ans.(d)**

**Sol.** Let time taken by B alone to complete the work be  $x$  days.

So, time taken by A alone to complete the same work =  $(x - 7.5)$  days

ATQ,

$$\frac{1}{x-7.5} + \frac{1}{x} = \frac{1}{9}$$

$$x = 3, \frac{45}{2}$$

$x$  cannot be 3 as time taken by A alone cannot be negative.

$$\text{Required time} = \frac{1 \times \frac{45}{2}}{\frac{1}{45}} = 5 \text{ days}$$

**S49. Ans.(b)**

**Sol.** Let ages of A & B, 4 years later be  $8x$  years &  $9x$  years respectively.

ATQ,

$$(8x - 4) + (9x - 4) = 47 \times 2$$

$$17x = 102$$

$$x = 6 \text{ years}$$

Required difference =  $9x - 8x = 6$  years

**S50. Ans.(a)**

**Sol.** Let total students in the school be  $100x$ .

So, number of students went on the picnic =  $39x$

And, number of boys went on the picnic =  $75x \times \frac{32}{100} = 24x$

So, number of girls went on the picnic =  $39x - 24x = 15x$

Required percentage =  $\frac{15x}{25x} \times 100 = 60\%$

**S51. Ans.(e)**

**Sol.** Total number of students in section A =  $\left(240 \times \frac{100}{60}\right) = 400$

Total number of students in section B =  $\left(210 \times \frac{100}{70}\right) = 300$

Required difference =  $400 - 300 = 100$

**S52. Ans.(a)**

**Sol. I.**  $x^2 + 9x + 20 = 0$

$$x^2 + 5x + 4x + 20 = 0$$

$$x(x + 5) + 4(x + 5) = 0$$

$$(x + 5)(x + 4) = 0$$

$$x = -4, -5$$

**II.**  $8y^2 - 15y + 7 = 0$

$$8y^2 - 8y - 7y + 7 = 0$$

$$8y(y - 1) - 7(y - 1) = 0$$

$$(y - 1)(8y - 7) = 0$$

$$y = 1, \frac{7}{8}$$

So,  $x < y$ .

**S53. Ans.(b)**

**Sol. I.**  $x^2 - 11x + 30 = 0$

$$x^2 - 6x - 5x + 30 = 0$$

$$x(x - 6) - 5(x - 6) = 0$$

$$(x - 6)(x - 5) = 0$$

$$x = 5, 6$$

**II.**  $y^2 + 12y + 36 = 0$

$$y^2 + 6y + 6y + 36 = 0$$

$$y(y + 6) + 6(y + 6) = 0$$

$$(y + 6)(y + 6) = 0$$

$$y = -6$$

So,  $x > y$ .

**S54. Ans.(c)**

**Sol. I.**  $x^2 + 13x + 40 = 0$

$$x^2 + 8x + 5x + 40 = 0$$

$$x(x + 8) + 5(x + 8) = 0$$

$$(x + 8)(x + 5) = 0$$

$$x = -8, -5$$

**II.**  $y^2 + 7y + 10 = 0$

$$y^2 + 5y + 2y + 10 = 0$$

$$y(y + 5) + 2(y + 5) = 0$$

$$(y + 5)(y + 2) = 0$$

$$y = -2, -5$$

So,  $x \leq y$ .



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**S55. Ans.(b)**

**Sol. I.**  $x^2 - 20x + 91 = 0$

$x^2 - 13x - 7x + 91 = 0$

$x(x - 13) - 7(x - 13) = 0$

$(x - 13)(x - 7) = 0$

$x = 7, 13$

**II.**  $y^2 + 16y + 63 = 0$

$y^2 + 9y + 7y + 63 = 0$

$y(y + 9) + 7(y + 9) = 0$

$(y + 9)(y + 7) = 0$

$y = -7, -9$

So,  $x > y$ .

**S56. Ans.(e)**

**Sol. I.**  $x^2 - x - 12 = 0$

$x^2 - 4x + 3x - 12 = 0$

$x(x - 4) + 3(x - 4) = 0$

$(x - 4)(x + 3) = 0$

$x = 4, -3$

**II.**  $y^2 + 5y + 6 = 0$

$y^2 + 3y + 2y + 6 = 0$

$y(y + 3) + 2(y + 3) = 0$

$(y + 3)(y + 2) = 0$

$y = -2, -3$

So, *no relation*.

**S57. Ans.(b)**

**Sol.** Required number of students =  $(700 \times 3) - (720 + 900) = 480$

**S58. Ans.(c)**

**Sol.** Number of girls in school - A & B together in 2000 =  $450 + 180 = 630$

Total number of students in school - B & C together in 2000 =  $600 + 400 = 1000$

Required percentage =  $\frac{1000-630}{1000} \times 100 = 37\%$

**S59. Ans.(a)**

**Sol.** Required number of boys =  $(720 - 360) + (360 - 180) + (450 - 270)$

$= 360 + 180 + 180$

$= 720$



**S60. Ans.(b)**

**Sol.** Average number of students in school – A, B & C in 1999 =  $\frac{1}{3} \times (720 + 360 + 450) = 510$

Required percentage =  $\frac{510}{600} \times 100 = 85\%$

**S61. Ans.(d)**

**Sol.** Required ratio =  $\frac{600-180}{400-120}$

=  $\frac{420}{280} = 3:2$

**S62. Ans.(b)**

**Sol.** Total number of girls in school – A, B & C together in 1999 =  $(360 + 180 + 270) = 810$

Total number of girls in school – A, B & C together in 2000 =  $(450 + 180 + 120) = 750$

Required difference =  $810 - 750 = 60$

**S63. Ans.(a)**

**Sol. Quantity I:**

Required profit =  $450 \times \frac{20}{120} = \text{Rs.}75$

**Quantity II:**

Required cost price =  $84 \times \frac{100}{120} = \text{Rs.}70$

So, Quantity I > Quantity II.

**S64. Ans.(b)**

**Sol. Quantity I:**

Required female =  $1152 \times \frac{100}{30} \times \frac{40}{60} \times \frac{100-25}{100} = 1920$

**Quantity II:**

1940

So, Quantity I < Quantity II.

**S65. Ans.(b)**

**Sol. Quantity I:**

ATQ,

$\frac{P \times 12 \times 2}{100} = 1200$

$P = 5,000 \text{ Rs.}$

**Quantity II:**

Rs.6,000

So, Quantity I < Quantity II.

**S66. Ans.(e)****Sol.** Let breadth of the field be  $x$  m.So, length of the field =  $(x + 4)$  mArea of a rectangular field =  $\frac{288}{3} = 96 \text{ m}^2$ ATQ,  $x(x + 4) = 96$ 

$$x^2 + 4x - 96 = 0$$

$$x^2 + 12x - 8x - 96 = 0$$

$$x(x + 12) - 8(x + 12) = 0$$

$$(x + 12)(x - 8) = 0$$

$$x = 8, -12$$

**Quantity I:**

Length of rectangular field = 12m

**Quantity II:** 12 m

So, Quantity I = Quantity II.

**S67. Ans.(b)****Sol. Quantity I:**Let present age of Prashant be  $x$  years.So, present age of Shivam =  $(x + 8)$  years

$$x + 8 + x = 32$$

$$x = 12 \text{ years}$$

**Quantity II:**

15 years

So, Quantity I &lt; Quantity II.

**S68. Ans.(a)****Sol.** Profit sharing ratio of A, B & C =  $(4000 \times 12) : (4000 + 1000) \times 12 : (3000 \times 4)$ 

$$= 48000 : 60000 : 12000$$

$$= 4 : 5 : 1$$

Let total profit be Rs.  $P$ 

ATQ,

$$\frac{1}{(4 + 5 + 1)} \times P = 700$$

$$P = \text{Rs. } 7000$$

**S69. Ans.(d)****Sol.** Let speed of train be ' $V$ ' m/sec'And let length of platform be ' $l$ ' meters.

ATQ,

$$\frac{l + 440}{80} = V \dots \text{(i)}$$

And,

$$\frac{440}{22} = V + 3$$

$$\Rightarrow V = 17 \dots \text{(ii)}$$

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Put value of (ii) in (i),

$$\frac{l + 440}{80} = 17$$

$$l = 1360 - 440$$

$$l = 920 \text{ m}$$

**S70. Ans.(d)**

**Sol.** ATQ,

$$2160 = 3600 \times \frac{75}{100} \times \frac{(100 - x)}{100}$$

$$2160 = 2700 - 27x$$

$$27x = 540$$

$$x = 20$$

$$\text{So, required amount} = 2160 \times \frac{100}{120} = \text{Rs. } 1800$$

**S71. Ans.(e)**

**Sol.** Possible cases = 1 green ball or 2 green balls

$$\text{Required probability} = \frac{{}^5C_1 \times {}^{10}C_1}{{}^{15}C_2} + \frac{{}^5C_2}{{}^{15}C_2}$$

$$= \frac{5 \times 10}{{}^{15}C_2} + \frac{10}{{}^{15}C_2} = \frac{50}{105} + \frac{10}{105}$$

$$= \frac{60}{105} = \frac{4}{7}$$

**S72. Ans.(a)**

**Sol.** Let speed of stream be  $x$  km/hr.

So, speed of boat in still water =  $6x$  km/hr.

ATQ,

$$\frac{210}{7} = (6x - x)$$

$$\Rightarrow 5x = 30$$

$$x = 6 \text{ km/hr}$$

$$\text{So, required downstream speed of boat} = (6x + x) = 7x = 42 \text{ km/hr}$$

**S73. Ans.(b)**

**Sol.** Let width of rectangle A be ' $4x$  meters'

$$\text{So, length of rectangle A} = 4x \times \frac{125}{100} = 5x \text{ meters}$$

ATQ,

$$4x \times 5x = 1280$$

$$20x^2 = 1280$$

$$x^2 = 64$$

$$x = 8$$

$$\text{Hence, side of square} = 2 \times 8 = 16 \text{ cm}$$

$$\text{Required perimeter} = 4 \times 16 = 64 \text{ cm}$$

**S74. Ans.(d)**

$$\begin{aligned} \text{Sol. Required average} &= 53 - \frac{[(49+57)-(45+52)]}{45} \\ &= 53 - \frac{9}{45} \\ &= 52.80 \text{ kg} \end{aligned}$$

**S75. Ans.(e)****Sol.** Missing number = 5760

Pattern of series -

$1.5 \times 2 = 3$

$3 \times 4 = 12$

$12 \times 6 = 72$

$72 \times 8 = 576$

$576 \times 10 = 5760$

**S76. Ans.(b)****Sol.** Missing number = 56

Pattern of series -

$80 - 14 = 66$

$66 + 19 = 85$

$85 - 24 = 61$

$61 + 29 = 90$

$90 - 34 = 56$

**S77. Ans.(b)****Sol.** Missing number = 83

Pattern of series -

$163 - 80 = 83$

$83 - 40 = 43$

$43 - 20 = 23$

$23 - 10 = 13$

$13 - 5 = 8$

**S78. Ans.(d)****Sol.** Missing number = 210

Pattern of series -

$$\begin{array}{cccccc} 150 & 152 & 157 & 167 & 184 & 210 \\ \underbrace{\hspace{1.5cm}}_{+2} & \underbrace{\hspace{1.5cm}}_{+5} & \underbrace{\hspace{1.5cm}}_{+10} & \underbrace{\hspace{1.5cm}}_{+17} & \underbrace{\hspace{1.5cm}}_{+26} & \\ & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+5} & \underbrace{\hspace{1.5cm}}_{+7} & \underbrace{\hspace{1.5cm}}_{+9} & \end{array}$$

**S79. Ans.(a)**

**Sol.** Missing number = 95

Pattern of series –

$$3.5 \times 1 - 1 = 2.5$$

$$2.5 \times 2 - 2 = 3$$

$$3 \times 3 - 3 = 6$$

$$6 \times 4 - 4 = 20$$

$$20 \times 5 - 5 = 95$$

**S80. Ans.(b)**

**Sol.** Missing number = 2100

Pattern of series –

$$? = 6300 \div 3 = \mathbf{2100}$$

$$2100 \div 4 = 525$$

$$525 \div 5 = 105$$

$$105 \div 6 = 17.5$$

$$17.5 \div 7 = 2.5$$



## IBPS RRB Clerk Prelims Previous Year Questions 2020

**Directions (1-5):** Study the following information carefully and answer the questions given below:

Eight persons i.e. D, Q, G, H, K, S, E and W are sitting around a square table in such a way that four persons sit at the corner side of the table and other four persons sit in the middle side of the table. The persons who sit at the corner side are facing away from the center and the persons who sit in the middle side are facing towards the center. D sits at the corner side of the table. One person sits between D and G. Q sits third to the right of G. Three persons sit between Q and E. W sits second to the right of E. W is not an immediate neighbour of D. H sits second to the right of K.

**Q1. Who among the following sits second to the right of S?**

- (a) Q
- (b) E
- (c) D
- (d) W
- (e) None of these

**Q2. How many persons sit between D and W when counted from the right of D?**

- (a) Three
- (b) Four
- (c) One
- (d) Two
- (e) None of these

**Q3. Who among the following sits second to the left of G?**

- (a) D
- (b) K
- (c) H
- (d) S
- (e) None of these

**Q4. Who among the following are the immediate neighbours to each other?**

- (a) K, E
- (b) Q, D
- (c) G, H
- (d) W, S
- (e) None of these



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**Q5. Four of the following five are alike in a certain way and hence form a group. Find the one who does not belong to that group?**

- (a) E
- (b) D
- (c) G
- (d) K
- (e) H

**Directions (6-9): Study the following sequence of numbers and alphabets and answer the given questions-**

**P 4 S A W 5 8 F 9 1 R E 7 2 O 3 7 5 1 B 6 K G N**

**Q6. How many numbers are there which are immediately preceded by a vowel?**

- (a) One
- (b) None
- (c) Two
- (d) Three
- (e) None of these

**Q7. If all the numbers are removed from the given series, then which among the following element is seventh from the right end?**

- (a) E
- (b) O
- (c) F
- (d) R
- (e) None of these

**Q8. If all the consonants are removed from the given series, then which among the following element is ninth from the left end?**

- (a) 2
- (b) 0
- (c) 3
- (d) 7
- (e) None of these

**Q9. Which among the following element is fifth to the left of twelfth element from the left end?**

- (a) F
- (b) 8
- (c) 9
- (d) 1
- (e) None of these

**Directions (10-12):** Study the following information carefully and answer the questions given below:

Five persons A, B, C, D and E have different heights. Less than two persons are shorter than D. As many persons are taller than D as shorter than C. A is taller than B but shorter than E. B is not the shortest person. The height of third tallest person is 86 cm.

**Q10. If the height of shortest person is 68 cm, then what may be the height of B?**

- (a) 69 cm
- (b) 81 cm
- (c) 78 cm
- (d) All the given heights
- (e) None of these

**Q11. How many persons are taller than C?**

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q12. Who among the following is just shorter than E?**

- (a) None
- (b) C
- (c) A
- (d) D
- (e) None of these

**Directions (13-16):** In each of the questions below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q13. Statements:** All Greens are Yellows. No Yellows are Black.

**Conclusions: I.** No Greens are Black.

**II.** Some Greens are Black.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.



**Q14. Statements:** All Chairs are Sofas. Only a few Sofas are Beds. No Beds are Curtains.

**Conclusions: I.** Some Sofas are not Beds.

**II.** Some Sofas are not Curtains.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q15. Statements:** Only a few Coffee are Tea. All Tea is Drinks. Only a few Drinks are Cold drinks.

**Conclusions: I.** Some Tea is not Cold drinks.

**II.** No Coffee are Drinks.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q16. Statements:** All Flowers are Trees. Only a few Trees are Gardens. No Gardens are Lawns.

**Conclusions: I.** All Lawns can never be Trees

**II.** Some Flowers can be Gardens

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Directions (17-21):** Study the following information carefully and answer the questions given below:

Seven persons A, B, C, D, E, F and G are sitting in row and all are facing towards north but not necessarily in the same order. B sits second from one of the extreme ends. Three persons sit between D and B. Two persons sit between D and A. C sits to the immediate left of A. F sits to left of C but is not an immediate neighbour of C. More than two persons sit between F and E.

**Q17. How many persons sit to the left of F?**

- (a) Two
- (b) None
- (c) One
- (d) Three
- (e) None of these

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**Q18. Who among the following sits third to the right of G?**

- (a) E
- (b) C
- (c) B
- (d) F
- (e) None of these

**Q19. Who among the following persons sit at the extreme ends?**

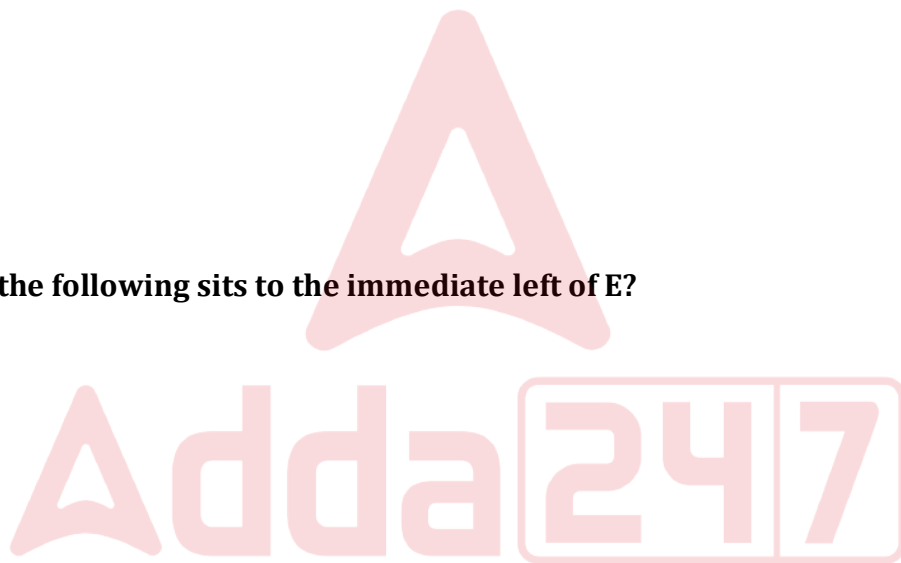
- (a) F, A
- (b) A, E
- (c) G, E
- (d) F, E
- (e) None of these

**Q20. How many persons sit between D and E?**

- (a) Two
- (b) Four
- (c) Three
- (d) One
- (e) None of these

**Q21. Who among the following sits to the immediate left of E?**

- (a) G
- (b) A
- (c) B
- (d) D
- (e) None of these



**Directions (22-23): Study the following information carefully and answer the questions given below:**

Point D is 10m north of point P. Point Y is 14m east of point D. Point Q is 8m north of point Y. Point S is 20m west of point Q. Point H is 8m south of point S.

**Q22. What is the shortest distance between point H and point D?**

- (a) 8m
- (b) 6m
- (c) 4m
- (d) 10m
- (e) None of these

**Q23. In which direction is point P with respect to point Q?**

- (a) South east
- (b) North west
- (c) South west
- (d) North east
- (e) None of these

**Directions (24-27): Study the following information carefully and answer the questions given below:**

There are certain number of persons sitting in a row facing towards north direction. A sits fifth to the right of B. Two persons sit between C and B. D sits fourth to the left of C. Four persons sit to the left of D. The number of persons sit between D and B is same as the number of persons sit between B and F. F sits at fourth position from one of the extreme ends.

**Q24. How many persons sit between B and D?**

- (a) None
- (b) Six
- (c) Five
- (d) Four
- (e) None of these

**Q25. How many persons sit in the row?**

- (a) Twenty
- (b) Twenty-one
- (c) Twenty-two
- (d) Nineteen
- (e) None of these

**Q26. Who among the following sits second to the right of A?**

- (a) None
- (b) C
- (c) D
- (d) F
- (e) None of these

**Q27. How many persons sit to the right of B?**

- (a) Nine
- (b) Ten
- (c) Eight
- (d) Eleven
- (e) None of these

**Q28. How many such pairs of letters are there in the meaningful word 'MATCHES' each of which has as many letters between them in the word as in the English alphabet (From both backward and forward)?**

- (a) Two
- (b) One
- (c) More than three
- (d) Three
- (e) None of these

**Directions (29-33): Study the following sequence carefully and answer the given questions.**

**COT IVY PEA FOX MRU**

**Q29. If we add 'L' after first letter in every word, then how many meaningful words will be formed?**

- (a) None
- (b) Three
- (c) Two
- (d) One
- (e) None of these

**Q30. If third letter of each word is replaced by its succeeding letter according to English alphabetical order, then in how many words vowels will appear more than once?**

- (a) Two
- (b) One
- (c) None
- (d) Three
- (e) None of these

**Q31. If all the words are arranged according to English alphabetical order from left to right, then which word will appear fourth from the left end?**

- (a) MRU
- (b) FOX
- (c) PEA
- (d) IVY
- (e) None of these

**Q32. If all the letters are arranged according to English alphabetical order within each word, then in how many words vowel will appear at second position?**

- (a) One
- (b) None
- (c) Two
- (d) Three
- (e) None of these

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**Q33. How many letters are there in English alphabetical series between the first letter of the second word from the left end and third letter of the third word from the right end?**

- (a) Five
- (b) Six
- (c) Seven
- (d) Four
- (e) None of these

**Q34. If in the number '35982476', 1 is added to each even digit and 2 is subtracted from each odd digit, then which digits will not appear twice in the number thus obtained?**

- (a) Only 1
- (b) Only 9
- (c) Both '1' and '9'
- (d) Only 5
- (e) None of these

**Directions (35-39): Study the following information carefully and answer the questions given below:**

Six people P, Q, R, S, T and U have events on different dates 7<sup>th</sup> and 12<sup>th</sup> of different months i.e. January, February and March. D has event on even numbered date in the month having 31 days. The number of persons have event before D is same as the number of persons have event after A. One person has event between A and C. F has event before C. B has event just before E.

**Q35. How many persons have event before B?**

- (a) Two
- (b) None
- (c) Three
- (d) One
- (e) None of these

**Q36. Who among the following has event just after D?**

- (a) C
- (b) None
- (c) B
- (d) F
- (e) None of these

**Q37. How many persons have event between F and D?**

- (a) One
- (b) Three
- (c) None
- (d) Two
- (e) None of these

**Q38. E has event on which among the following date?**

- (a) 12<sup>th</sup> February
- (b) 12<sup>th</sup> March
- (c) 7<sup>th</sup> March
- (d) 7<sup>th</sup> January
- (e) None of these

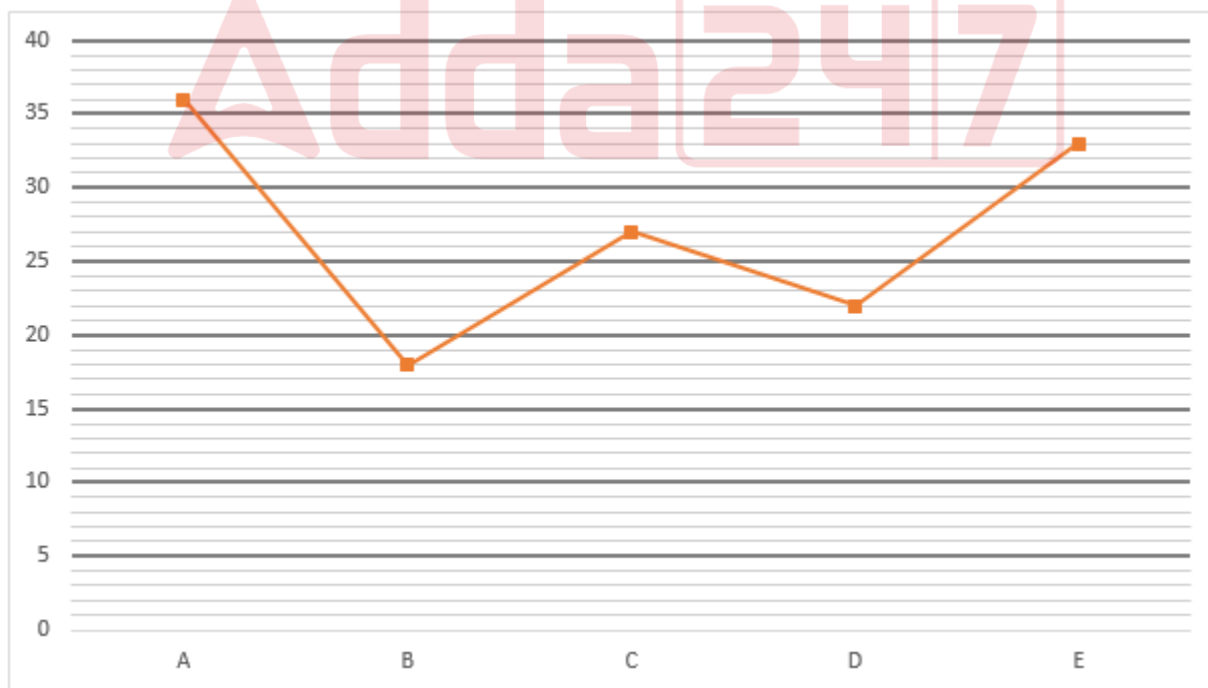
**Q39. Four of the following five are alike in a certain way and hence form a group. Which is the one that does not belong to that group?**

- (a) A, F
- (b) E, F
- (c) F, C
- (d) E, B
- (e) C, B

**Q40. Four of the following five are alike in a certain way and hence form a group. Which is the one that does not belong to that group?**

- (a) RUY
- (b) SQO
- (c) OMK
- (d) FDB
- (e) YWU

**Directions (41-45): Line graph given below shows number of passengers travelling in five (A, B, C, D & E) different compartment of a trains. Read the data carefully and answer the questions.**



**Q41. Total passengers in E are what percent less than total passengers in A?**

- (a)  $6\frac{1}{4}\%$
- (b)  $8\frac{1}{3}\%$
- (c)  $6\frac{1}{3}\%$
- (d)  $6\frac{2}{3}\%$
- (e) 5%

**Q42. Find average number of passengers in A, C & E?**

- (a) 32
- (b) 30
- (c) 36
- (d) 33
- (e) 27

**Q43. Find the ratio of total passenger in B to that of in D?**

- (a) 7 : 9
- (b) 9 : 10
- (c) 11 : 9
- (d) 9 : 13
- (e) 9 : 11

**Q44. Total passenger in C and E together are what percent more than total passenger in A?**

- (a)  $33\frac{1}{3}\%$
- (b)  $66\frac{2}{3}\%$
- (c)  $66\frac{1}{3}\%$
- (d) 50%
- (e) 60%

**Q45. Find total number of passengers traveling in B, C & D together?**

- (a) 69
- (b) 65
- (c) 67
- (d) 63
- (e) 71

**Directions (46-50): What will come in the place of question (?) mark in following questions.**

**Q46. 12, 12, 24, 72, ?, 1440**

- (a) 256
- (b) 288
- (c) 284
- (d) 296
- (e) 316

**Q47. 16, 17.8, 21.4, 28.6, 43, ?**

- (a) 69.8
- (b) 72.8
- (c) 73.8
- (d) 70.8
- (e) 71.8

**Q48. 12, 7, 8, 13, ?, 68.5**

- (a) 28
- (b) 27
- (c) 26
- (d) 27.5
- (e) 26.5

**Q49. 72, 79, 65, 93, ?, 149**

- (a) 36
- (b) 31
- (c) 33
- (d) 37
- (e) 35

**Q50. 8, 9, 19, 58, 233, ?**

- (a) 1164
- (b) 1166
- (c) 1156
- (d) 1152
- (e) 1158

**Q51. If the difference between the present age of P and Q is three years and the ratio between the age of P and Q after two years will be 5 : 4, then find the age of P after two years (in years)?**

- (a) 15
- (b) 13
- (c) 18
- (d) 16
- (e) 14

**Q52. A and B both spend 30% of their income together which is equal to Rs. 26400. If income of A is 20% more than that of B, then find the income of B (in Rs.)?**

- (a) 52000
- (b) 48000
- (c) 40000
- (d) 36000
- (e) 30000



**Q53. If a man invests equal sum at the same rate of interest on simple interest for T and T+4 years and the respective ratio of interest gets by man is 1:2 respectively, then find 'T'?**

- (a) 6
- (b) 2
- (c) 5
- (d) 3
- (e) 4

**Q54. 12 women can complete a work in 64 day, then find how many women will be required to complete  $\frac{2}{3}$  rd of the same work in 16 days?**

- (a) 28
- (b) 24
- (c) 36
- (d) 32
- (e) 48

**Q55. A train running at the speed of 72 kmph crosses a pole in 30 seconds. Find the time taken by the same train to cross the pole with the speed of 54 kmph (in sec)?**

- (a) 42
- (b) 48
- (c) 54
- (d) 45
- (e) 40

**Q56. The upstream speed and downstream speed of a boat is 10 kmph and 14 kmph respectively and boat travelled for T hours & 6 hours in upstream and downstream respectively. If the distance travelled in downstream is 44 km more than upstream, then find the value of 'T'**

- (a) 4
- (b) 3
- (c) 6
- (d) 5
- (e) 8

**Q57. An article was marked up by 50% above cost price and allowed Rs 50 discount on marked price. If shopkeeper still made a profit of Rs. 50, then find the selling price of the article (in Rs.)?**

- (a) 350 Rs.
- (b) 300 Rs.
- (c) 250 Rs.
- (d) 200 Rs.
- (e) 150 Rs.

**Q58.** A & B invested Rs. X and Rs. (X + 800) for same period of time in a business. If A gets Rs. 3200 as profit share out of total profit of Rs. 6800, then find 'X'?

- (a) 7800
- (b) 6000
- (c) 8400
- (d) 7200
- (e) 6400

**Q59.** A vessel contains mixture of milk and water in the ration of 3 : 1 respectively. If 20 liters mixture taken out from the vessel and now the difference between milk and water in the remaining mixture is 70 liters, then find initial mixture in vessel (in liters)?

- (a) 240
- (b) 160
- (c) 120
- (d) 80
- (e) 180

**Q60.** Perimeter of a rectangle is 2 cm more than circumference of a circle and area of circle is 616 cm<sup>2</sup>. If breath of rectangle is equal to radius of circle, then find length of rectangle (in cm)?

- (a) 35
- (b) 33
- (c) 31
- (d) 21
- (e) 27

**Directions (61-65):** Table given below shows number of orders received by three (P, Q & R) companies of their three (A, B & C) items. Read the data carefully and answer the questions.

Companies	A	B	C
P	80	60	50
Q	40	70	90
R	80	100	30

**Q61.** Total orders of item A & B received by R is how much more than total orders of item B & C received by Q?

- (a) 50
- (b) 10
- (c) 40
- (d) 20
- (e) 30

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**Q62. Find total orders (all three items) received by R is what percent more than that of total orders (all three items) received by Q?**

- (a) 5%
- (b) 12.5%
- (c) 10%
- (d) 15%
- (e) 20%

**Q63. Find ratio of total orders of item A & B received by P to total orders of item B & C received by Q?**

- (a) 7 : 9
- (b) 8 : 7
- (c) 4 : 7
- (d) 5 : 6
- (e) 7 : 8

**Q64. Find average number of orders of item B received by Q & R is what percent of total orders of item A received by P?**

- (a)  $104\frac{1}{4}\%$
- (b)  $106\frac{1}{4}\%$
- (c)  $108\frac{1}{4}\%$
- (d)  $102\frac{1}{4}\%$
- (e)  $110\frac{1}{4}\%$

**Q65. Find total orders of item A, B & C received by P?**

- (a) 210
- (b) 220
- (c) 190
- (d) 180
- (e) 200

**Directions (66-80): What should come in place of question mark (?) in following questions?**

**Q66.  $(48\% \text{ of } 625) \div 0.75 = ?$**

- (a) 800
- (b) None of these
- (c) 40
- (d) 4000
- (e) 400

**Q67.**  $\frac{(4)^8 + (18)^2}{7^2 + 121 - 73} = ?$

- (a) 1
- (b) 2
- (c) 4
- (d) 5
- (e) 3

**Q68.**  $(4)^? \times 2 = \frac{(16)^2}{\sqrt[4]{16}}$

- (a) 2
- (b) 3
- (c) 4
- (d) 1
- (e) None of these

**Q69.**  $4 \times (? + 120) = (8)^3$

- (a) 6
- (b) 12
- (c) 8
- (d) 4
- (e) 16

**Q70.**  $? + 432 - 205 = 550$

- (a) 384
- (b) 244
- (c) 224
- (d) 276
- (e) 324

**Q71.**  $12 \times 8 + (?)^2 = (14)^2$

- (a) 10
- (b) 12
- (c) 8
- (d) 6
- (e) 9

**Q72.**  $40\% \text{ of } 400 + ? \% \text{ of } 300 = 250$

- (a) 40
- (b) 36
- (c) 25
- (d) 30
- (e) 20



**Q73.**  $\sqrt{441} \div 7 = ? - 180$

- (a) 185
- (b) 183
- (c) 187
- (d) 184
- (e) 182

**Q74.**  $\sqrt{576} - \sqrt{144} + \sqrt{729} = 36 + ?$

- (a) 1
- (b) 4
- (c) 5
- (d) 2
- (e) 3

**Q75.**  $119 + 41 + 9 = ?^2$

- (a) 10
- (b) 13
- (c) 17
- (d) 8
- (e) 16

**Q76.**  $12\% (? + 100) = 18$

- (a) 40
- (b) 50
- (c) 30
- (d) 100
- (e) 60

**Q77.**  $\frac{\sqrt[3]{1331}}{11} + \sqrt{81} + ? = 27$

- (a) 19
- (b) 18
- (c) 17
- (d) 16
- (e) 15

**Q78.**  $?^2 + \sqrt{400} = 6^2$

- (a) 3
- (b) 4
- (c) 2
- (d) 1
- (e) 5



**Q79.**  $9\frac{1}{3} + 7\frac{1}{2} = ? + 5\frac{1}{6} + 6\frac{1}{3}$

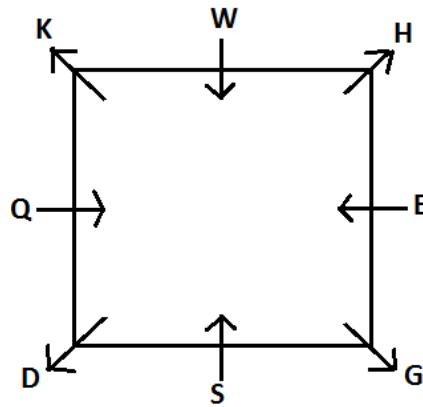
- (a) 4
- (b)  $4\frac{1}{2}$
- (c) 5
- (d)  $5\frac{1}{6}$
- (e) 6

**Q80.**  $(3^4 \times 9^7) \div 27^6 = 3^?$

- (a) 2
- (b) 3
- (c) 0
- (d) 6
- (e) 7



Directions (1-5):



- S1. Ans.(b)
- S2. Ans.(d)
- S3. Ans.(c)
- S4. Ans.(b)
- S5. Ans.(a)

- S6. Ans.(c)
- S7. Ans.(d)
- S8. Ans.(a)
- S9. Ans.(b)

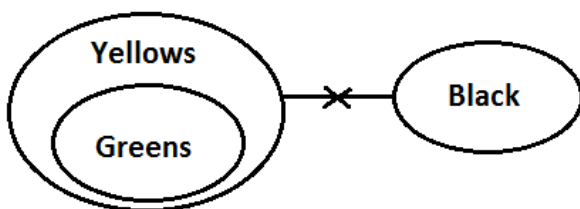
Directions (10-12):

$C > E > A (86) > B > D$

- S10. Ans.(d)
- S11. Ans.(a)
- S12. Ans.(c)

Directions (13-16):

- S13. Ans.(a)
- Sol.



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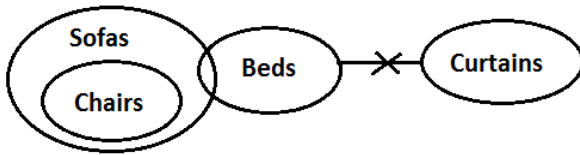


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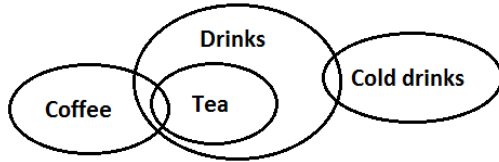
S14. Ans.(e)

Sol.



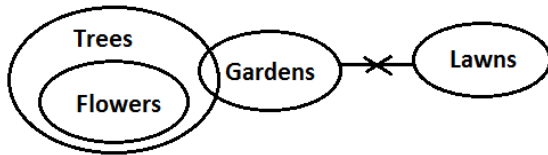
S15. Ans.(d)

Sol.



S16. Ans.(b)

Sol.



Directions (17-21):



S17. Ans.(b)

S18. Ans.(c)

S19. Ans.(d)

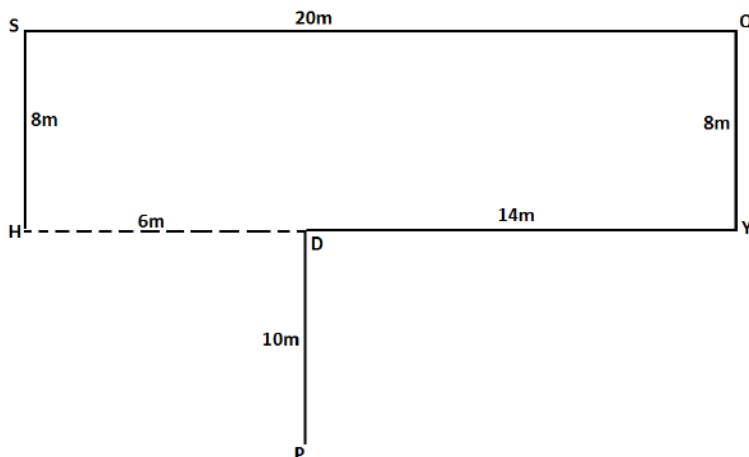
S20. Ans.(b)

S21. Ans.(c)

Directions (22-23):

S22. Ans.(b)

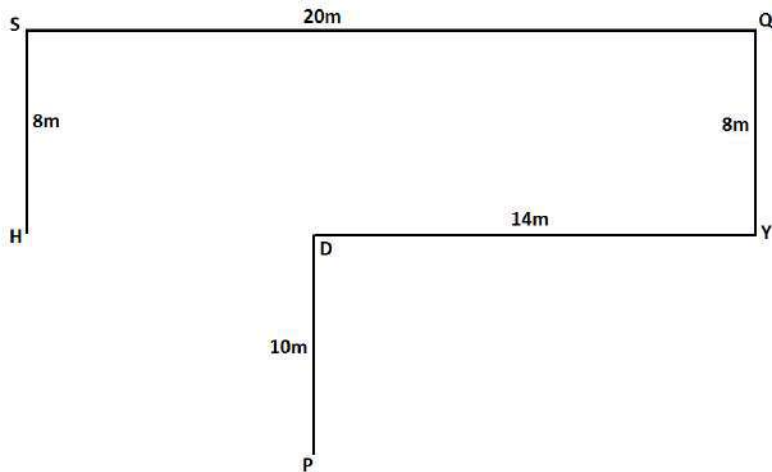
Sol.



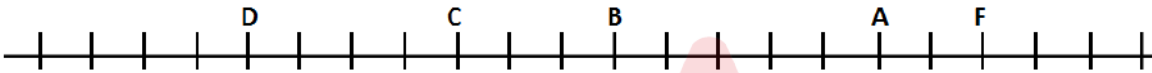


S23. Ans.(c)

Sol.



Directions (24-27):



S24. Ans.(b)

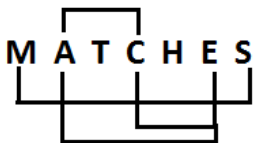
S25. Ans.(c)

S26. Ans.(d)

S27. Ans.(b)

S28. Ans.(c)

Sol.



Directions (29-33):

S29. Ans.(c)

S30. Ans.(b)

S31. Ans.(a)

S32. Ans.(d)

S33. Ans.(c)

S34. Ans.(c)

Sol. 3 5 9 8 2 4 7 6

1 3 7 9 3 5 5 7

**Directions (35-39):**

**Sol.**

Months	7 <sup>th</sup>	12 <sup>th</sup>
January	A	F
February	C	B
March	E	D

**S35. Ans.(c)**

**S36. Ans.(b)**

**S37. Ans.(b)**

**S38. Ans.(c)**

**S39. Ans.(b)**

**S40. Ans.(a)**

**S41. Ans.(b)**

**Sol.** Required percentage =  $\frac{36-33}{36} \times 100$   
 $= \frac{3}{36} \times 100 = 8\frac{1}{3}\%$

**S42. Ans.(a)**

**Sol.** Required average =  $\frac{36+27+33}{3} = 32$

**S43. Ans.(e)**

**Sol.** Required ratio =  $18 : 22 = 9 : 11$

**S44. Ans.(b)**

**Sol.** Total passenger in C and E =  $27 + 33 = 60$

Required percentage =  $\frac{60-36}{36} \times 100$   
 $= \frac{24}{36} \times 100 = 66\frac{2}{3}\%$

**S45. Ans.(c)**

**Sol.** Required number of passengers =  $18 + 27 + 22 = 67$

**S46. Ans.(b)**

**Sol.** Pattern of series -

$12 \times 1 = 12$

$12 \times 2 = 24$

$24 \times 3 = 72$

$? = 72 \times 4 = 288$

$288 \times 5 = 1440$

**S47. Ans.(e)****Sol.** Pattern of series –

$$16 + 1.8 = 17.8$$

$$17.8 + 3.6 = 21.4$$

$$21.4 + 7.2 = 28.6$$

$$28.6 + 14.4 = 43$$

$$? = 43 + 28.8 = 71.8$$

**S48. Ans.(b)****Sol.** Pattern of series –

$$12 \times 0.5 + 1 = 7$$

$$7 \times 1 + 1 = 8$$

$$8 \times 1.5 + 1 = 13$$

$$? = 13 \times 2 + 1 = 27$$

$$27 \times 2.5 + 1 = 68.5$$

**S49. Ans.(d)****Sol.** Pattern of series –

$$72 + 7 = 79$$

$$79 - 14 = 65$$

$$65 + 28 = 93$$

$$? = 93 - 56 = 37$$

$$37 + 112 = 149$$

**S50. Ans.(b)****Sol.** Pattern of series –

$$8 \times 1 + 1 = 9$$

$$9 \times 2 + 1 = 19$$

$$19 \times 3 + 1 = 58$$

$$58 \times 4 + 1 = 233$$

$$233 \times 5 + 1 = 1166$$

**S51. Ans.(a)****Sol.** Let present age of Q = t years

So, present age of P = (t + 3) years

ATQ –

$$\frac{t+2}{(t+3)+2} = \frac{4}{5}$$

$$t = 10 \text{ years}$$

So, Age of P after two years = (10 + 3) + 2 = 15 year



**S52. Ans.(c)****Sol.** Let total income of B = 100x Rs.So, total income of A =  $100x \times \left(1 + \frac{20}{100}\right) = 120x$  Rs.

ATQ -

$$(100x + 120x) \times \frac{30}{100} = 26400$$

$$66x = 26400$$

$$x = 400 \text{ Rs.}$$

So, income of B =  $400 \times 100 = 40000$  Rs.**S53. Ans.(e)****Sol.** Let sum invested by man = Rs. X

And, rate of interest = r%

ATQ-

$$\frac{X \times r \times T}{X \times r \times (T+4)} = \frac{1}{2}$$

$$\frac{T}{(T+4)} = \frac{1}{2}$$

$$T = 4$$

**S54. Ans.(d)****Sol.** Let total work =  $12 \times 64 = 768$  units

Required women =  $768 \times \frac{2}{3} \times \frac{1}{16} = 32$

**S55. Ans.(e)****Sol.** Let length of train be 'l' meters

ATQ -

$$72 \times \frac{5}{18} = \frac{l}{30}$$

$$l = 600 \text{ meters}$$

Required time =  $\frac{600}{54 \times \frac{5}{18}} = 40 \text{ sec}$

**S56. Ans.(a)****Sol.** ATQ -

$$14 \times 6 - 10 \times T = 44$$

$$10T = 40$$

$$T = 4$$

**S57. Ans.(c)****Sol.** Let cost price of article = 100x Rs.So, marked price of article =  $100x \times \left(1 + \frac{50}{100}\right) = 150x$  Rs.And, selling price of article =  $(150x - 50)$  Rs.

ATQ -

$$(150x - 50) - 100x = 50$$

$$50x = 100$$

$$x = 2 \text{ Rs.}$$

So, selling price of article =  $(150 \times 2 - 50) = 250$  Rs.

**S58. Ans.(e)**

**Sol.** ATQ –

$$\frac{x}{(x+800)} = \frac{3200}{(6800-3200)}$$

$$x = 6400$$

**S59. Ans.(b)**

**Sol.** Let total initial mixture in vessel =  $4x$

So, milk in vessel =  $3x$

And water in vessel =  $x$

ATQ –

$$(3x - 20 \times \frac{3x}{4x}) - (x - 20 \times \frac{x}{4x}) = 70$$

$$(3x - 15) - (x - 5) = 70$$

$$2x = 80$$

$$x = 40$$

So, initial mixture in vessel =  $4x = 4 \times 40 = 160$  liters

**S60. Ans.(c)**

**Sol.** Let radius of circle be 'r' cm

ATQ –

$$\frac{22}{7} \times r \times r = 616$$

$r = 14$  cm = breadth of rectangle

Let length of rectangle be 'l' cm

Perimeter of rectangle = circumference of a circle + 2

$$2(14 + l) = 2 \times \frac{22}{7} \times 14 + 2$$

$$2(14 + l) = 90$$

$$l = 31 \text{ cm}$$

**S61. Ans.(d)**

**Sol.** Required difference =  $(80 + 100) - (70 + 90) = 20$

**S62. Ans.(a)**

**Sol.** Total orders (all three items) received by R =  $(80 + 100 + 30) = 210$

Total orders (all three items) received by Q =  $(40 + 70 + 90) = 200$

$$\text{Required percentage} = \frac{210-200}{200} \times 100 = 5\%$$

**S63. Ans.(e)**

**Sol.** Total orders of item A & B received by P =  $80 + 60 = 140$

Total orders of item B & C received by Q =  $70 + 90 = 160$

Required ratio =  $140 : 160 = 7 : 8$

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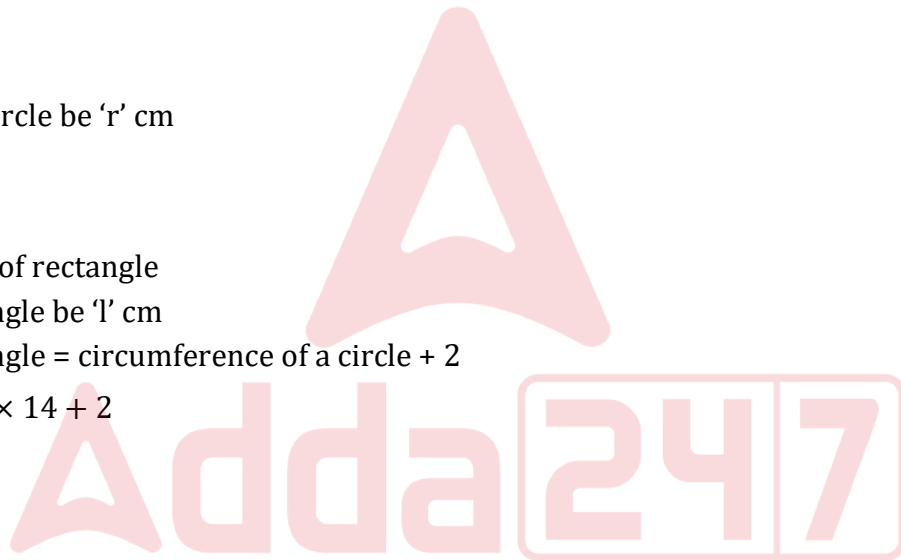
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**S64. Ans.(b)**

**Sol.** Average number of orders of item B received by Q & R =  $\frac{70+100}{2} = 85$

Required percentage =  $\frac{85}{80} \times 100 = 106\frac{1}{4}\%$

**S65. Ans.(c)**

**Sol.** Required sum =  $80 + 60 + 50 = 190$

**S66. Ans.(e)**

**Sol.**  $\frac{48}{100} \times 625 \times \frac{4}{3} = ?$

? = 400

**S67. Ans.(c)**

**Sol.**  $\frac{64+324}{97} = ?$

? = 4

**S68. Ans.(b)**

**Sol.**  $4^? \times 2 = \frac{256}{2}$

$4^? = 64$

$4^? = (4)^3$

? = 3

**S69. Ans.(c)**

**Sol.**  $4 \times ? = 512 - 480$

? =  $\frac{32}{4}$

? = 8

**S70. Ans.(e)**

**Sol.**  $? + 432 - 206 = 550$

? =  $550 - 226$

? = 324

**S71. Ans.(a)**

**Sol.**  $(?)^2 = 196 - 96$

?<sup>2</sup> = 100

? = 10

**S72. Ans.(d)**

**Sol.**  $\frac{40}{100} \times 400 + \frac{300}{100} \times ? = 250$

$160 + 3 \times ? = 250$

? =  $\frac{90}{3} = 30$



**S73. Ans.(b)**

**Sol.**  $\div 7 = ? - 180$

$? = 183$

**S74. Ans.(e)**

**Sol.**  $24 - 12 + 27 = 36 + ?$

$? = 3$

**S75. Ans.(b)**

**Sol.**  $119 + 41 + 9 = ?^2$

$? = 13$

**S76. Ans.(b)**

**Sol.**  $\frac{12}{100} \times (? + 100) = 18$

$? = 150 - 100$

$? = 50$

**S77. Ans.(c)**

**Sol.**  $\frac{11}{11} + 9 + ? = 27$

$1 + 9 + ? = 27$

$? = 17$

**S78. Ans.(b)**

**Sol.**  $?^2 + 20 = 36$

$?^2 = 16$

$? = 4$

**S79. Ans.(d)**

**Sol.**  $? = 9\frac{1}{3} + 7\frac{1}{2} - 5\frac{1}{6} - 6\frac{1}{3}$

$? = 9 + 7 - 5 - 6 \left( \frac{1}{3} + \frac{1}{2} - \frac{1}{6} - \frac{1}{3} \right)$

$? = 5\frac{1}{6}$

**S80. Ans.(c)**

**Sol.**  $\frac{3^{4 \times 3^{7 \times 2}}}{3^{6 \times 3}} = 3^?$

$3^? = 3^{4+14-18}$

$3^? = 3^0$

$? = 0$



## Free Practice Paper 1

**Directions (1-5):** Study the following alphanumeric series carefully and answer the questions given below.

**K A G 6 V J S 8 Y O W P 4 W D R Q G 9 S J L A P Q V 2 D T W V K Q 4 0 G 5 7 E C**

**Q1.** How many letters are there which are immediately followed by a number and immediately preceded by a vowel?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q2.** How many letters are there between the element which is 13<sup>th</sup> from the left end of the series and 10<sup>th</sup> element from the right end of the series?

- (a) 16
- (b) 17
- (c) 19
- (d) 15
- (e) 20

**Q3.** Which of the following element is 8<sup>th</sup> to the right of 10<sup>th</sup> element from the left end of the series?

- (a) G
- (b) Q
- (c) R
- (d) 9
- (e) S

**Q4.** How many numbers are there which are immediately followed and immediately preceded by a consonant?

- (a) One
- (b) Two
- (c) Five
- (d) Three
- (e) Six

**Q5.** Which of the following element is 15<sup>th</sup> from the left end of the series?

- (a) W
- (b) D
- (c) R
- (d) Q
- (e) 4

**Directions (6-10):** Study the following information carefully and answer the questions given below.

Eight boxes A, B, C, D, E, F, G and H are placed one above the other but not necessarily in the same order. Four boxes are placed between the box D and box E which is placed just above the box H. Two boxes are placed between the box H and box F. Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C.

**Q6.** How many boxes are placed between box A and box E?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) Four

**Q7.** Which of the following box is placed just above box G?

- (a) Box F
- (b) Box A
- (c) Box E
- (d) Box D
- (e) None of these

**Q8.** How many boxes are placed below box A?

- (a) One
- (b) Four
- (c) Three
- (d) Two
- (e) None





**Q9.** If all the boxes are arranged according to alphabetical order from top to bottom, then how many boxes will remain at same position?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q10.** If box D is related to box G in the same way box B is related to F, then which of the following box is related to C?

- (a) Box E
- (b) Box H
- (c) Box A
- (d) Box B
- (e) None of these

**Q11.** How many pairs of letters are there in the word 'ASSIGNMENT', each of which have as many letters between them in the word as they have in English alphabetical series (both forward and backward direction)?

- (a) One
- (b) Three
- (c) None
- (d) Two
- (e) Four

**Directions (12-15):** In each of the questions below, some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q12. Statements:**

Only a few Zero are Hero.  
No Hero is Actor.  
Some Actors are Male.

**Conclusions:**

**I.** All Zero can be Hero.

**II.** Some Male are not Hero.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q13. Statements:**

Only A3 is C8.  
Some A3 are J5.  
All J5 are G2.

**Conclusions:**

**I.** Some G2 is A3.

**II.** No J5 is C8.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q14. Statements:**

Only Ocean are Water.

No Ocean is Sea.

Some Sea are Ponds.

**Conclusions:**

**I.** Some Ponds can be Water.

**II.** All Ponds can be Ocean.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q15. Statements:**

Some Quiz are Test.

Only a few Tests are Exam.

No Exam is Hard.

**Conclusions:**

**I.** Some Exam being Quiz is a possibility.

**II.** Some Quiz are Hard.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q16.** If in the number "7326949784", all the digits are arranged in ascending order from left to right, after that all the digits are changed to its just preceding digits, then what will be the sum of the number which is 4<sup>th</sup> from the left end and 4<sup>th</sup> from the right end of the number thus formed after rearrangement?

- (a) 10
- (b) 12
- (c) 9
- (d) 8
- (e) 11

**Directions (17-21):** Study the following information carefully and answer the questions given below.

Five boys Rahul, Raj, Rohan, Robin, Rohit and three girls Reena, Riya, Ritu like three different mobile brands i.e., Apple, MI and Samsung but not necessarily in the same order. (Note: Each brand is liked by only one girl and not more than three persons like any of the brand).

Raj and Reena like same brand but not Samsung. Riya doesn't like Samsung. Rohit is the only boy who likes Samsung. Rohan and Robin like same brand but not Apple.

**Q17.** Who among the following likes Apple brand?

- (a) Reena
- (b) Rahul
- (c) Ritu
- (d) Both Reena and Rahul
- (e) Both Rahul and Ritu

**Q18.** Which of the following statement(s) is/are true?

- I. Ritu likes Samsung brand.
- II. Rahul likes Apple brand.
- III. Riya and Robin like same brand.
- (a) Only statement I is true.
- (b) Only statement II is true.
- (c) Both statements I and II are true.
- (d) Both Statements I and III are true.
- (e) All statements are true.

**Q19.** Who among the following persons like same brand?

- (a) Raj, Robin
- (b) Riya, Rohan
- (c) Rohit, Riya
- (d) Rahul, Ritu
- (e) None of these

**Q20.** Which of the following combination is true?

- (a) Rahul- MI
- (b) Rohan-Samsung
- (c) Ritu-Apple
- (d) Robin-MI
- (e) None of these

**Q21.** Who among the following likes the same brand which is liked by Riya?

- (a) Robin
- (b) Rohan
- (c) Rahul
- (d) Both Robin and Rohan
- (e) Both Rahul and Rohan

**Directions (22-24):** In each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below is/are definitely true and give your answer accordingly.

**Q22.**

**Statements/कथन:**  $D > W < O = S; O = R > Z \leq M$

**Conclusions/निष्कर्ष:**

**I.**  $W > Z$

**II.**  $M \geq S$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

**Q23.**

**Statements/कथन:**  $O = W \geq S = G < T > K$

**Conclusions/निष्कर्ष:**

**I.**  $O = G$

**II.**  $G < O$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

**Q24.**

**Statements/कथन:**  $P > T < Y = U; Y > W < M = L$

**Conclusions/निष्कर्ष:**

**I.**  $T \geq M$

**II.**  $U > W$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusions I and II are true.

**Directions (25-29):** Study the following information carefully and answer the questions given below.

Seven persons L, T, D, R, B, K and U sit in a row in such a way that all of them face north direction but not necessarily in the same order. Each of them likes seven different vegetables i.e. Onion, Potato, Tomato, Brinjal, Pea, Carrot and Pumpkin but not necessarily in the same order.

Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. Three persons sit between L and the one who likes Pumpkin. U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot. The number of persons sit to the right of D is one less than the number of persons sit to the left of R. R doesn't like pumpkin. One person sits between D and the one who likes Brinjal. K neither likes pea nor likes Onion.

**Q25.** Who among the following likes Pea?

- (a) B
- (b) L
- (c) R
- (d) D
- (e) T

**Q26.** How many persons sit between the one who likes Onion and K?

- (a) None
- (b) One
- (c) Three
- (d) Four
- (e) Five

**Q27.** Which of the following statement(s) is/are true?

- I. B likes Brinjal.
- II. K is an immediate neighbour of one who likes Carrot.
- III. One person sits between K and R.
- (a) Only statement I is true.
- (b) Only statement II is true.
- (c) Both statements I and II are true.
- (d) Both Statements I and III are true.
- (e) All statements are true.

**Q28.** Who among the following sits immediate left of K?

- (a) T
- (b) L
- (c) The one who likes Brinjal
- (d) R
- (e) The one who likes Pumpkin

**Q29.** Four of the following are alike in a certain way and thus formed a group, then who among the following doesn't belong to that group?

- (a) R
- (b) U
- (c) L
- (d) D
- (e) T

**Directions (30-33):** A number arrangement machine when given an input of number rearranges them following a particular rule. The following is an illustration of input and rearrangement.

**Input:** 94 45 76 83 63 55

Step I: 45 94 76 83 63 55

Step II: 45 55 94 76 83 63

Step III: 45 55 63 94 76 83

Step IV: 45 55 63 76 94 83

Step V: 45 55 63 76 83 94

Step V is final step of the given Input. Now answer the following questions based on the following input.

**Input:** 67 85 49 38 26 15

**Q30.** Which of the following is 3<sup>rd</sup> element from the left end in step II?

- (a) 26
- (b) 49
- (c) 38
- (d) 67
- (e) 15

**Q31.** What is the difference between the number which is 4<sup>th</sup> from the right end in step III and 2<sup>nd</sup> from the left end in last step?

- (a) 23
- (b) 12
- (c) 41
- (d) 59
- (e) 29

**Q32.** How many steps are required to get the output?

- (a) Four
- (b) Five
- (c) Six
- (d) Three
- (e) More than six

**Q33.** Which of the following order of elements comes in the same manner in the III step of the given Input?

- (a) 15 26 49
- (b) 67 49 38
- (c) 38 67 85
- (d) 15 38 49
- (e) None of these

**Directions (34-35):** Study the following information carefully and answer the questions given below.

There are six members in a family of two generation with two married Couple. P is daughter-in-law of M. W is the only daughter of K who is mother of N. C is the married child of K.

**Q34.** How is C related to M?

- (a) Son
- (b) Daughter
- (c) Brother
- (d) Father
- (e) None of these

**Q35.** How is N related to P?

- (a) Brother
- (b) Nephew
- (c) Sister-in-law
- (d) Brother-in-law
- (e) Father

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**Directions (36-40): Study the following information carefully and answer the questions given below.**

Six girls are arranged in a descending order according to their salary from left to right. Only two girls get less salary than Bhawna. Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha.

**Q36.** Who among the following gets the 2<sup>nd</sup> highest salary?

- (a) Priya
- (b) Nikita
- (c) Aastha
- (d) Sunayna
- (e) None of these

**Q37.** If Bhawna gets 30k salary, then what will be the possible salary of Sunayna?

- (a) 20k
- (b) 46k
- (c) 50k
- (d) 28k
- (e) 38k

**Q38.** How many girls get lower salary than Sunayna?

- (a) One
- (b) Two
- (c) Four
- (d) Three
- (e) None of these

**Q39.** If all the girls are arranged according to their name in the English alphabetical order from left to right of, then the positions of how many girls remain unchanged?

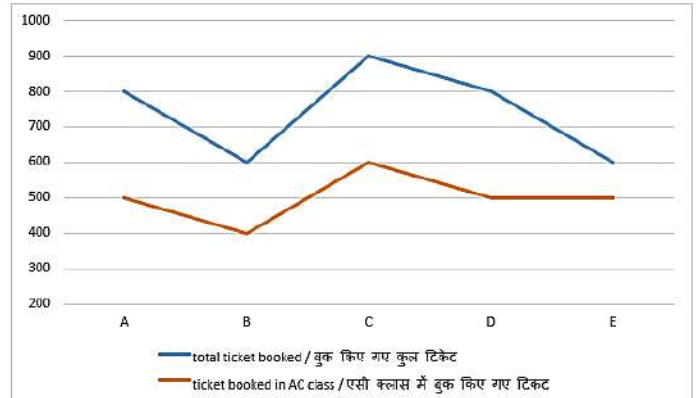
- (a) None
- (b) Two
- (c) Three
- (d) One
- (e) None of these

**Q40.** How many girls get more salary than Priya?

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) None of these

**Directions (41-45): Line graph given below shows total tickets booked and total AC tickets booked in five trains (A, B, C, D & E). Read the data carefully and answer the questions.**

**Note** - Total tickets booked = Tickets booked in (AC + sleeper)



**Q41.** Total tickets booked in train D is what percent more than total tickets booked in train E?

- (a) 33.33%
- (b) 66.66%
- (c) 14%
- (d) 30%
- (e) 25%

**Q42.** Find the ratio of total sleeper tickets booked in trains B and C together to total AC tickets booked in train A?

- (a) 1 : 10
- (b) 11 : 1
- (c) 1 : 1
- (d) 3 : 4
- (e) 9 : 7

**Q43.** If total tickets booked in train F is 150% more than total sleeper tickets booked in train D and total AC tickets booked in train F is 20% more than total AC tickets booked in train B, then find the total sleeper tickets booked in train F?

- (a) 300
- (b) 750
- (c) 400
- (d) 270
- (e) 480

**Q44.** Find the average of total sleeper tickets booked in trains A, B & C?

- (a) 260
- (b)  $266\frac{2}{3}$
- (c)  $266\frac{1}{3}$
- (d)  $166\frac{2}{3}$
- (e) 266

**Q45.** Total sleeper tickets booked in train A is what percent of total sleeper tickets booked in D & E together?

- (a) 50%  
(b) 75%  
(c) 60%  
(d) 80%  
(e) 65%

**Directions (46-50):** Table given below shows total number of students and the ratio of boys to girls in five (A, B, C, D & E) different schools. Read the data carefully and answer the questions.

**Note:** Total number of students in any school = total number of boys + total number of girls

Schools / स्कूल	Total students / कुल छात्र	Ratio of boys to girls / लड़कों का लड़कियों से अनुपात
A	800	3:2
B	600	7:3
C	900	1:1
D	1200	13:7
E	1000	7:3

**Q46.** Total girls in A are how much more or less than total girls in school E?

- (a) 10  
(b) 20  
(c) 40  
(d) 30  
(e) 50

**Q47.** Find the average number of girls in school B & D?

- (a) 200  
(b) 300  
(c) 360  
(d) 250  
(e) 180

**Q48.** Total boys in C are what percent more than total girls in school E?

- (a) 30%  
(b) 55%  
(c) 60%  
(d) 40%  
(e) 50%

**Q49.** If total students in school F is 40% more than that in B and total boys in school F is 150 more than that in A, then find total girls in school F?

- (a) 240  
(b) 210  
(c) 270  
(d) 190  
(e) 170

**Q50.** Find the ratio of total boys in school C & D together to total students in school B?

- (a) 41 : 16  
(b) 41 : 12  
(c) 41 : 14  
(d) 41 : 18  
(e) 41 : 20

**Directions (51-58):** What will come in the place of question (?) mark in following questions.

**Q51.**  $4\frac{5}{8} + \frac{3}{2} - 2\frac{2}{3} = ?$

- (a)  $2\frac{7}{24}$   
(b)  $3\frac{11}{24}$   
(c)  $6\frac{11}{24}$   
(d)  $5\frac{5}{24}$   
(e)  $4\frac{7}{24}$

**Q52.**  $7 \times ? + \sqrt{1369} - \sqrt{2025} = \sqrt[3]{2197}$

- (a) 14  
(b) 28  
(c) 21  
(d) 3  
(e) 7

**Q53.**  $360 - 80\% \text{ of } 1200 = 24\% \text{ of } ?^3 - 840$

- (a) 20  
(b) 10  
(c) 24  
(d) 1  
(e) 15

**Q54.**  $28\% \text{ of } 75 + 6 \times ? = 21^2$

- (a) 70  
(b) 40  
(c) 16  
(d) 60  
(e) 44

**Q55.**  $3554 - 4896 + 4095 \div 3 = ?$

- (a) 23
- (b) 22
- (c) 12
- (d) 24
- (e) 62

**Q56.**  $(24\% \text{ of } 1250) \div 0.75 = ?$

- (a) 800
- (b) 1600
- (c) 40
- (d) 4000
- (e) 400

**Q57.**  $150 \times 39 \div 3 - 950 = ?$

- (a) 500
- (b) 100
- (c) 1000
- (d) 800
- (e) 600

**Q58.**  $(36 \times 8) - (440 \div 8) = ?$

- (a) 221
- (b) 252
- (c) 233
- (d) 278
- (e) 215

**Q59.** The perimeter of a rectangular park is equal to the circumference of a circle whose radius is 203 meters. If the length of rectangle is  $\frac{22}{7}$  times of its breadth, then find the breadth of the park?

- (a) 156 m
- (b) 158 m
- (c) 160 m
- (d) 154 m
- (e) 164 m

**Q60.** Pipe A alone can fill a tank in 20 hours and pipe B alone can fill the same tank in 30 hours. Pipe C empty the same tank in 5 hours. If pipe A and B are open for 20 hours, then find how much time pipe C takes to empty the tank?

- (a)  $\frac{25}{3}$  hours
- (b)  $\frac{90}{11}$  hours
- (c)  $\frac{20}{11}$  hours
- (d)  $\frac{10}{11}$  hours
- (e)  $\frac{40}{11}$  hours

**Q61.** A alone can complete a piece of work in 10 days, while B alone can do the same work in 12 days. B work for 9 days alone and after that he left the work. If remaining work complete by C whose efficiency is half of efficiency A, then find in how many days C complete the remaining work.

- (a) 12 days
- (b) 5 days
- (c) 10 days
- (d) 15 days
- (e) 9 days

**Q62.** If the speed of boat in upstream and in downstream is 10 km/h and 15 km/h respectively, then find the total distance covered by boat in still water in 4 hours?

- (a) 80 km
- (b) 90 km
- (c) 20 km
- (d) 50 km
- (e) 44 km

**Q63.** A is six years older than B and the ratio of present age of C to that of A is 10: 9. If two years hence the sum of ages of A & B will be 34 years, then find the present age of C?

- (a) 30 years
- (b) 32 years
- (c) 28 years
- (d) 24 years
- (e) 20 years

**Q64.** If the difference between compound interest and simple interest at the end of two years at rate of 10% p.a. is Rs.50, then find the simple interest on the same sum at the same rate of interest for three years? (in Rs.)

- (a) 1500
- (b) 2000
- (c) 2500
- (d) 2800
- (e) 2200

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**Q65.** The sum of two positive numbers is 44 and 50% of bigger number is equal to the 60% of the smaller number. Find the bigger number?

- (a) 24
- (b) 28
- (c) 32
- (d) 36
- (e) 30

**Q66.** Amrit invested Rs. X in a scheme offering 10% p.a. at compound interest for two years. If the interest received by Amrit for only second year is Rs.4400, then find X?

- (a) Rs.40,000
- (b) Rs.15,000
- (c) Rs.25,000
- (d) Rs.30,000
- (e) Rs.10,000

**Q67.** Average of five consecutive numbers is X. If the average of largest and second smallest number is 17.5, then find the value of X?

- (a) 17
- (b) 17.5
- (c) 16
- (d) 18.5
- (e) 18

**Q68.** A 450 m long train cross a bridge in 36 seconds. If the ratio of length of train to bridge is 1:3, then find the speed of the train?

- (a) 180 kmph
- (b) 150 kmph
- (c) 60 kmph
- (d) 90 kmph
- (e) 120 kmph

**Q69.** A and B enter into a partnership with their initial capital of Rs.10000 and Rs.12000 respectively. After three months, C also joins them with 20% more capital than A's capital. If at the end of the year profit share of B is Rs.1200, then find the profit share of C?

- (a) Rs. 6009
- (b) Rs. 800
- (c) Rs. 1000
- (d) Rs. 1100
- (e) Rs. 900

**Q70.** A shopkeeper sold an article at 30% discount and still earned a profit of 40%. If the difference between marked price and cost price is Rs.1500 then find the selling price of the article?

- (a) Rs.2000
- (b)Rs.1100
- (c) Rs.700
- (d) Rs.4200
- (e) Rs.2100

**Directions (71-75):** In the following questions, two equations (I) and (II) are given. You have to solve both equations and mark the appropriate option.

**Q71.**

**I.**  $x^2 - 18x + 65 = 0$

**II.**  $y^2 - 10y + 21 = 0$

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or no relation.

**Q72.**

**I.**  $4x^2 - 12x + 9 = 0$

**II.**  $3y^2 - 5y + 2 = 0$

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or no relation.

**Q73.**

**I.**  $(x + 4)^2 = 16$

**II.**  $(y + 1)^2 = 49$

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or no relation.

**Q74.**

**I.**  $x^2 + x - 72 = 0$

**II.**  $y^2 - 19y + 90 = 0$

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or no relation.

**Q75.**

**I.**  $x^2 + 4x - 96 = 0$

**II.**  $y^2 - 28y + 196 = 0$

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or no relation.

**Directions (76-80):** What will come in the place of (?) in the following number series:

**Q76.** 70, 90, ?, 154, 198, 250

- (a) 112
- (b) 130
- (c) 124
- (d) 118
- (e) 106

**Q77.** 9, 19, 58, ?, 1166, 6997

- (a) 272
- (b) 240
- (c) 233
- (d) 250
- (e) 239

**Q78.** 49, 53, 61, 77, 109, ?

- (a) 157
- (b) 159
- (c) 173
- (d) 163
- (e) 155

**Q79.** 128, 64, 64, 96, 192, ?

- (a) 460
- (b) 440
- (c) 480
- (d) 400
- (e) 280

**Q80.** 9, 17, 33, ?, 129, 257, 513

- (a) 66
- (b) 64
- (c) 62
- (d) 60
- (e) 65

## Solutions

**S1. Ans.(c)**

**Sol.** There are two letters (AG6, OG5)

**S2. Ans.(d)**

**Sol.** 13<sup>th</sup> element from left end = 4 and 10<sup>th</sup> element from right end = V

Thus, there are 15 letters between 4 and V (W D R Q G S J L A P Q V D T W)

**S3. Ans.(a)**

**Sol.** 10<sup>th</sup> element from left end = O

Thus, 8<sup>th</sup> to the right of O = G

**S4. Ans.(c)**

**Sol.** There are Five numbers (G6V, S8Y, P4W, G9S, V2D)

**S5. Ans.(b)**

**Sol.** 15<sup>th</sup> from the left end of the series = D

**S6. Ans.(a)**

**Sol.** Four boxes are placed between the box D and box E which is placed just above the box H. There are two possible cases as:-

Boxes (Case 1)	Boxes (Case 2)
D	E
	H
E	D
H	

Two boxes are placed between the box H and box F. Here, one more possibility comes from Case 2 as:-

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
	H	
		E
F		H
	F	
E	D	
H		
		D

Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C. Here, case 2 and case 2a is ruled out as not satisfying the condition of placing C, so:-

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
G	H	
B	G	E
F	B	H
	F	G
E	D	B
H		C
C		D

We know, A is one of the boxes and one place is left so the final arrangement is:-



Boxes
D
G
B
F
A
E
H
C

No box is placed between box A and box E.

**S7. Ans.(d)**

**Sol.** Four boxes are placed between the box D and box E which is placed just above the box H. There are two possible cases as: -

Boxes (Case 1)	Boxes (Case 2)
D	E
	H
E	D
H	

Two boxes are placed between the box H and box F. Here, one more possibility comes from Case 2 as: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
	H	
		E
F		H
	F	
E	D	
H		D

Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C. Here, case 2 and case 2a is ruled out as not satisfying the condition of placing C, so: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
G	H	
B	G	E
F	B	H
	F	G
E	D	B
H		G
C		D

We know, A is one of the boxes and one place is left so the final arrangement is: -

Boxes
D
G
B
F
A
E
H
C

Box D is placed just above the box G.

**S8. Ans.(c)**

**Sol.** Four boxes are placed between the box D and box E which is placed just above the box H. There are two possible cases as: -

Boxes (Case 1)	Boxes (Case 2)
D	E
	H
E	D
H	

Two boxes are placed between the box H and box F. Here, one more possibility comes from Case 2 as: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
	H	
		E
F		H
	F	
E	D	
H		D

Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C. Here, case 2 and case 2a is ruled out as not satisfying the condition of placing C, so: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
G	H	
B	G	E
F	B	H
	F	G
E	D	B
H		G
C		D

We know, A is one of the boxes and one place is left so the final arrangement is: -

Boxes
D
G
B
F
A
E
H
C

Three boxes are placed below box A.

**S9. Ans.(a)**

**Sol.** Four boxes are placed between the box D and box E which is placed just above the box H. There are two possible cases as: -

Boxes (Case 1)	Boxes (Case 2)
D	E
	H
E	D
H	

Two boxes are placed between the box H and box F. Here, one more possibility comes from Case 2 as: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
	H	
		E
F		H
	F	
E	D	
H		
		D

Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C. Here, case 2 and case 2a is ruled out as not satisfying the condition of placing C, so: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
G	H	
B	G	E
F	B	H
	F	G
E	D	B
H		G
C		D

We know, A is one of the boxes and one place is left so the final arrangement is: -

Boxes
D
G
B
F
A
E
H
C

No box will remain at same position.

Boxes	Alphabetical Order
D	A
G	B
B	C
F	D
A	E
E	F
H	G
C	H

**S10. Ans.(b)**

**Sol.** Four boxes are placed between the box D and box E which is placed just above the box H. There are two possible cases as: -

Boxes (Case 1)	Boxes (Case 2)
D	E
	H
E	D
H	

Two boxes are placed between the box H and box F. Here, one more possibility comes from Case 2 as: -

Boxes (Case 1)	Boxes (Case 2)	Boxes (Case 2a)
D	E	F
	H	
		E
F		H
	F	
E	D	
H		
		D

Box B is placed just below the box G and above box C. Number of boxes placed above box D is same as placed below box C. Here, case 2 and case 2a is ruled out as not satisfying the condition of placing C, so :-

Boxes (Case 1)	Boxes (Case-2)	Boxes (Case-2a)
D	E	F
G	H	
B	G	E
F	B	H
	F	G
E	D	B
H		G
C		D

We know, A is one of the boxes and one place is left so the final arrangement is :-

Boxes
D
G
B
F
A
E
H
C

1<sup>st</sup> box in the given question is placed just above the 2<sup>nd</sup> box, so box H is related to box C.

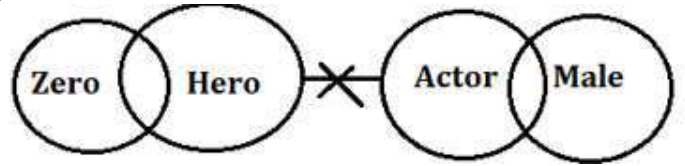
S11. Ans.(b)

Sol.  
There are three pairs.



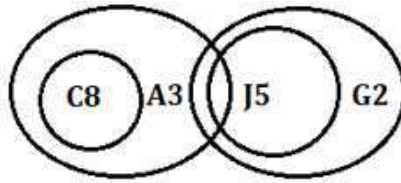
S12. Ans.(b)

Sol. I. Not Follows- Because it is already given that only a few Zero are Hero, so all Zero cannot be Hero even in possibility.  
II. Follows- Because it is given that no Actor is Hero, so the part of Actor which is Male cannot be Hero.



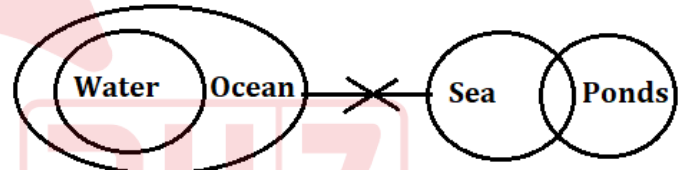
S13. Ans.(e)

Sol. I. Follows- Because Some A3 are J5 and all J5 is G2 so it is clear that Some G2 is A3.  
II. Follows- Because it is given that only C8 is related to A3, so relation of C8 with any other element is not possible.



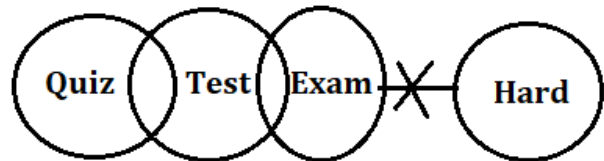
S14. Ans.(d)

Sol. I. Not Follows- Because Water is only related with Ocean, so relation of Water with any other element is not follows even in possibility.  
II. Not Follows- Because No ocean is Sea and some Sea are Ponds, so all Ponds cannot be Ocean.



S15. Ans.(a)

Sol. I. Follows- Because there is no relation between Exam and Quiz, so their relation will follow in possibility.  
II. Not Follows- Because there is no direct relation between Quiz and Hard, so their relation will follow only in possibility.



S16. Ans.(c)

Sol. Given Number-7326949784  
Number after arranged in ascending order = 2344677899  
Number after changing all the digit to its just preceding number = 1233566788  
4<sup>th</sup> digit from the left end = 3 and 4<sup>th</sup> digit from right end = 6  
Thus, the sum of the numbers is 3 + 6 = 9.

**S17. Ans.(d)**

**Sol.** Raj and Reena like same brand but not Samsung. There are two possible cases are they may like Apple or MI.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj				Raj	
Reena				Reena	

Riya doesn't like Samsung. So, she will like MI in Case 1 and Apple in Case 2 as each brand is liked by only one girl. Rohit is the only boy who likes Samsung, so Ritu will also like Samsung in both the cases as each brand is liked by only one girl.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena		Ritu		Reena	Ritu

Rohan and Robin like same brand but not Apple, so they will like MI in Case 1 as it is given that not more than three persons like any of the brand and here Case 2 is eliminated as not satisfying this condition.

Case 1			Case-2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena	Rohan	Ritu		Reena	Ritu
	Robin				

We know, Rahul is one of the persons so he will like Apple as not more than three persons like any of the brand and Rohit is the only boy who likes Samsung. Thus, the final arrangement is: -

Apple	MI	Samsung
Raj	Riya	Rohit
Reena	Rohan	Ritu
Rahul	Robin	

Both Reena and Rahul like Apple brand.

**S18. Ans.(e)**

**Sol.** Raj and Reena like same brand but not Samsung. There are two possible cases are they may like Apple or MI.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj				Raj	
Reena				Reena	

Riya doesn't like Samsung. So, she will like MI in Case 1 and Apple in Case 2 as each brand is liked by only one girl. Rohit is the only boy who likes Samsung, so Ritu will also like Samsung in both the cases as each brand is liked by only one girl.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena		Ritu		Reena	Ritu

Rohan and Robin like same brand but not Apple, so they will like MI in Case 1 as it is given that not more than three persons like any of the brand and here Case 2 is eliminated as not satisfying this condition.

Case 1			Case-2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena	Rohan	Ritu		Reena	Ritu
	Robin				

We know, Rahul is one of the persons so he will like Apple as not more than three persons like any of the brand and Rohit is the only boy who likes Samsung. Thus, the final arrangement is: -

Apple	MI	Samsung
Raj	Riya	Rohit
Reena	Rohan	Ritu
Rahul	Robin	

All statements are true.

**S19. Ans.(b)**

**Sol.** Raj and Reena like same brand but not Samsung. There are two possible cases are they may like Apple or MI.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj				Raj	
Reena				Reena	

Riya doesn't like Samsung. So, she will like MI in Case 1 and Apple in Case 2 as each brand is liked by only one girl. Rohit is the only boy who likes Samsung, so Ritu will also like Samsung in both the cases as each brand is liked by only one girl.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena		Ritu		Reena	Ritu

Rohan and Robin like same brand but not Apple, so they will like MI in Case 1 as it is given that not more than three persons like any of the brand and here Case 2 is eliminated as not satisfying this condition.

Case 1			Case-2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena	Rohan	Ritu		Reena	Ritu
	Robin				

We know, Rahul is one of the persons so he will like Apple as not more than three persons like any of the brand and Rohit is the only boy who likes Samsung. Thus, the final arrangement is: -

Apple	MI	Samsung
Raj	Riya	Rohit
Reena	Rohan	Ritu
Rahul	Robin	

Riya and Rohan likes same brand i.e., MI.

**S20. Ans.(d)**

**Sol.** Raj and Reena like same brand but not Samsung. There are two possible cases are they may like Apple or MI.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj				Raj	
Reena				Reena	

Riya doesn't like Samsung. So, she will like MI in Case 1 and Apple in Case 2 as each brand is liked by only one girl. Rohit is the only boy who likes Samsung, so Ritu will also like Samsung in both the cases as each brand is liked by only one girl.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena		Ritu		Reena	Ritu

Rohan and Robin like same brand but not Apple, so they will like MI in Case 1 as it is given that not more than three persons like any of the brand and here Case 2 is eliminated as not satisfying this condition.

Case 1			Case-2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena	Rohan	Ritu	Reena	Ritu	
	Robin				

We know, Rahul is one of the persons so he will like Apple as not more than three persons like any of the brand and Rohit is the only boy who likes Samsung. Thus, the final arrangement is: -

Apple	MI	Samsung
Raj	Riya	Rohit
Reena	Rohan	Ritu
Rahul	Robin	

Robin-MI is correct combination.

**S21. Ans.(d)**

**Sol.** Raj and Reena like same brand but not Samsung. There are two possible cases are they may like Apple or MI.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj				Raj	
Reena				Reena	

Riya doesn't like Samsung. So, she will like MI in Case 1 and Apple in Case 2 as each brand is liked by only one girl. Rohit is the only boy who likes Samsung, so Ritu will also like Samsung in both the cases as each brand is liked by only one girl.

Case 1			Case 2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena		Ritu		Reena	Ritu

Rohan and Robin like same brand but not Apple, so they will like MI in Case 1 as it is given that not more than three persons like any of the brand and here Case 2 is eliminated as not satisfying this condition.

Case 1			Case-2		
Apple	MI	Samsung	Apple	MI	Samsung
Raj	Riya	Rohit	Riya	Raj	Rohit
Reena	Rohan	Ritu	Reena	Ritu	
	Robin				

We know, Rahul is one of the persons so he will like Apple as not more than three persons like any of the brand and Rohit is the only boy who likes Samsung. Thus, the final arrangement is: -

Apple	MI	Samsung
Raj	Riya	Rohit
Reena	Rohan	Ritu
Rahul	Robin	

Both Robin and Rohan like the same brand which is liked by Riya.

**S22. Ans.(d)**

**Sol.** I.  $W > Z$  (False) II.  $M \geq S$  (False)

**S23. Ans.(c)**

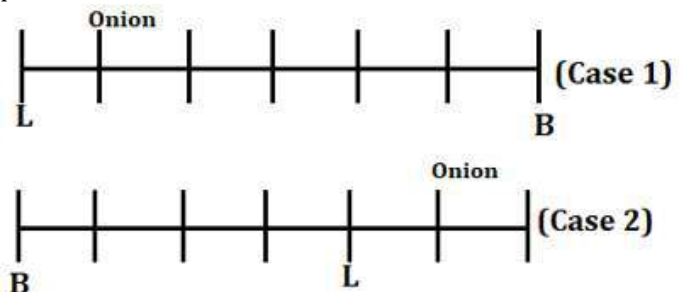
**Sol.** I.  $O = G$  (False) II.  $G < O$  (False)

**S24. Ans.(b)**

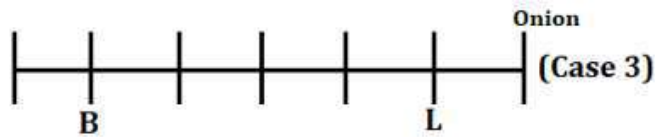
**Sol.** I.  $T \geq M$  (False) II.  $U > W$  (True)

**S25. Ans.(b)**

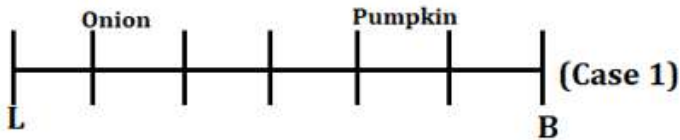
**Sol.** Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. L sits immediate left of the one who likes Onion. There are three possible cases as: -



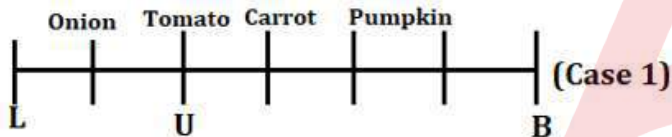




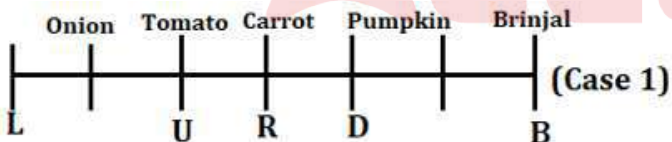
Three persons sit between L and the one who likes Pumpkin. B neither likes Pumpkin nor likes Carrot. Here, Case 2 and Case 3 is eliminated as not satisfying the given condition: -



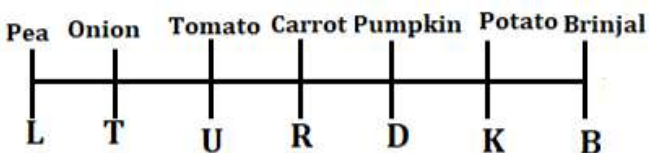
U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot.



The number of persons sit to the right of D is one less than the number of persons sit to the left of R. One person sits between D and the one who likes Brinjal. R doesn't like pumpkin. So, D will sit 3<sup>rd</sup> from right end and R will sit at 4<sup>th</sup> from left end of the row.



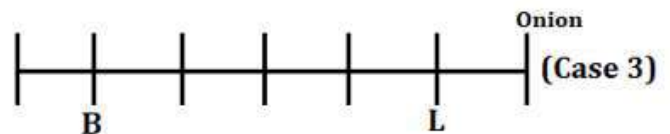
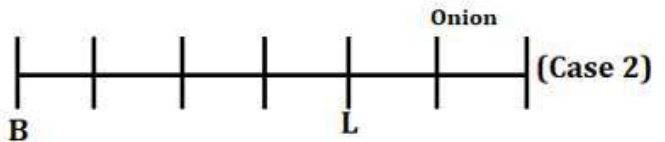
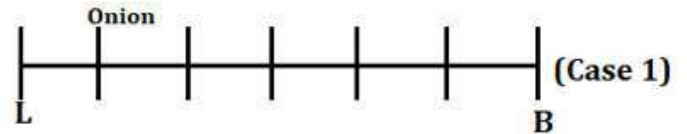
K neither likes pea nor likes Onion. So, K will sit immediate left of B as no other place left according to the given condition and likes Potato. Also, we know T is one of the persons thus T will like Onion and pea is one of the vegetables which will be liked by L. Thus, the final arrangement is: -



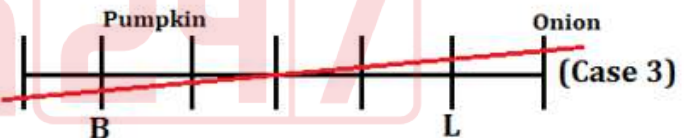
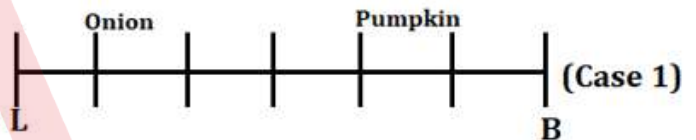
L likes Pea.

**S26. Ans.(c)**

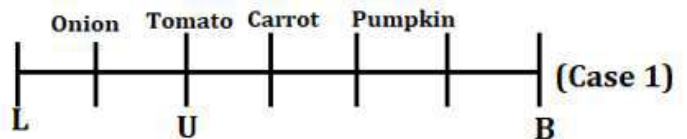
**Sol.** Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. L sits immediate left of the one who likes Onion. There are three possible cases as: -



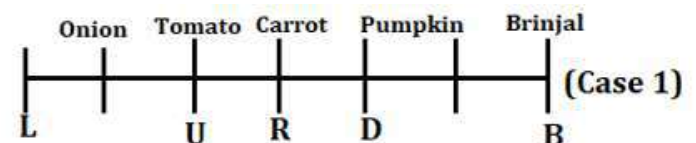
Three persons sit between L and the one who likes Pumpkin. B neither likes Pumpkin nor likes Carrot. Here, Case 2 and Case 3 is eliminated as not satisfying the given condition: -



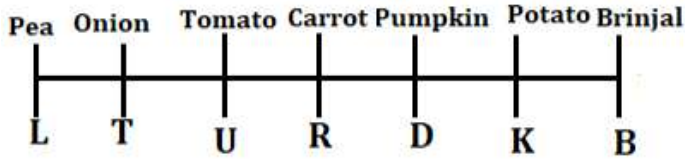
U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot.



The number of persons sit to the right of D is one less than the number of persons sit to the left of R. One person sits between D and the one who likes Brinjal. R doesn't like pumpkin. So, D will sit 3<sup>rd</sup> from right end and R will sit at 4<sup>th</sup> from left end of the row.



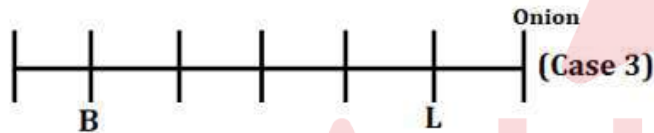
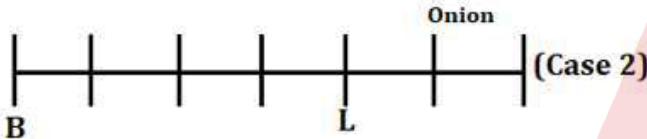
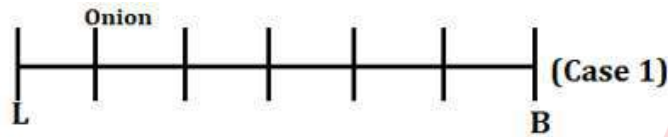
K neither likes pea nor likes Onion. So, K will sit immediate left of B as no other place left according to the given condition and likes Potato. Also, we know T is one of the persons thus T will like Onion and pea is one of the vegetables which will be liked by L. Thus, the final arrangement is: -



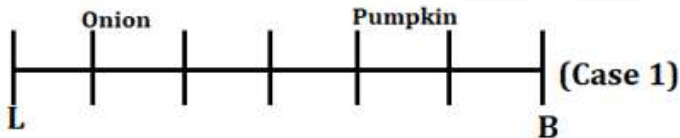
Three persons sit between the one who likes Onion and K.

**S27. Ans.(d)**

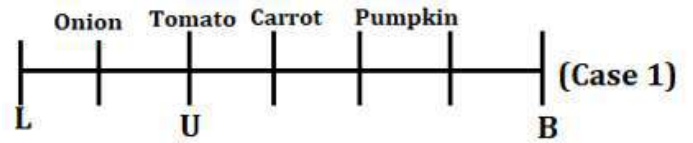
**Sol.** Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. L sits immediate left of the one who likes Onion. There are three possible cases as: -



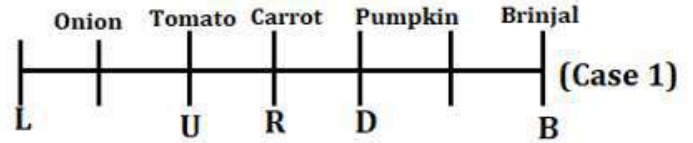
Three persons sit between L and the one who likes Pumpkin. B neither likes Pumpkin nor likes Carrot. Here, Case 2 and Case 3 is eliminated as not satisfying the given condition: -



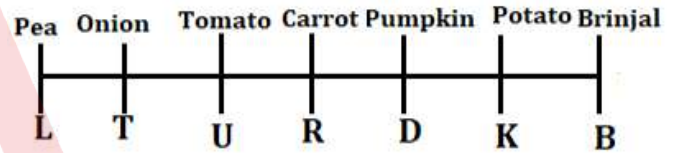
U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot.



The number of persons sit to the right of D is one less than the number of persons sit to the left of R. One person sits between D and the one who likes Brinjal. R doesn't like pumpkin. So, D will sit 3<sup>rd</sup> from right end and R will sits at 4<sup>th</sup> from left end of the row.



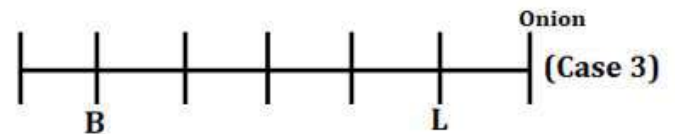
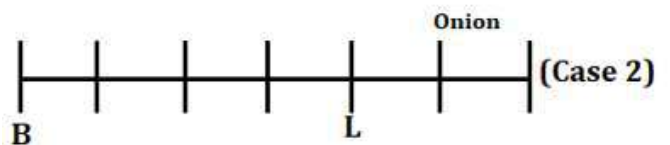
K neither likes pea nor likes Onion. So, K will sit immediate left of B as no other place left according to the given condition and likes Potato. Also, we know T is one of the persons thus T will like Onion and pea is one of the vegetables which will be liked by L. Thus, the final arrangement is: -



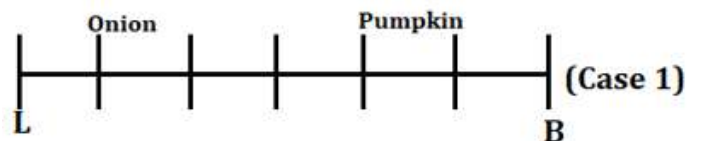
Both Statements I and III are true.

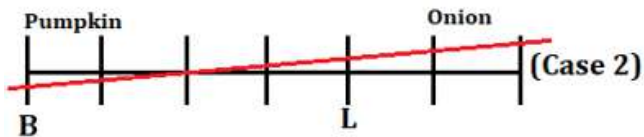
**S28. Ans.(e)**

**Sol.** Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. L sits immediate left of the one who likes Onion. There are three possible cases as: -

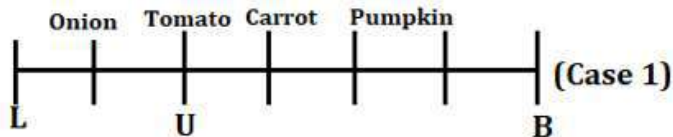


Three persons sit between L and the one who likes Pumpkin. B neither likes Pumpkin nor likes Carrot. Here, Case 2 and Case 3 is eliminated as not satisfying the given condition: -

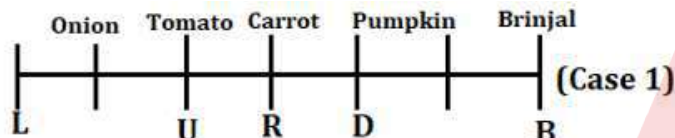




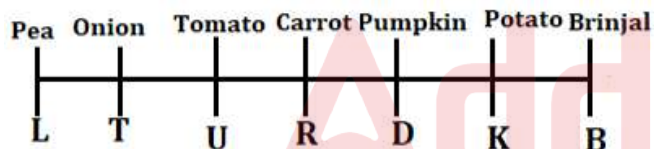
U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot.



The number of persons sit to the right of D is one less than the number of persons sit to the left of R. One person sits between D and the one who likes Brinjal. R doesn't like pumpkin. So, D will sit 3<sup>rd</sup> from right end and R will sits at 4<sup>th</sup> from left end of the row.



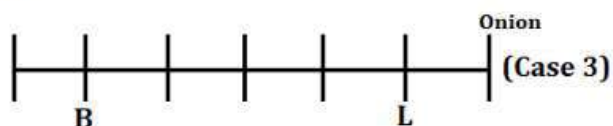
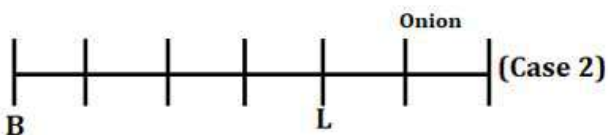
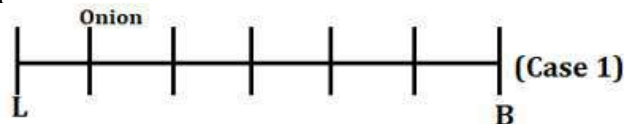
K neither likes pea nor likes Onion. So, K will sit immediate left of B as no other place left according to the given condition and likes Potato. Also, we know T is one of the persons thus T will like Onion and pea is one of the vegetables which will be liked by L. Thus, the final arrangement is: -



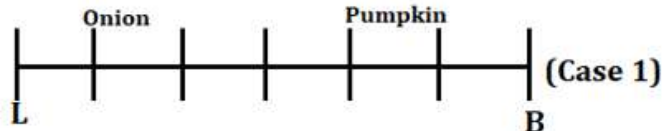
The one who likes Pumpkin sits immediate left of K.

**S29. Ans.(c)**

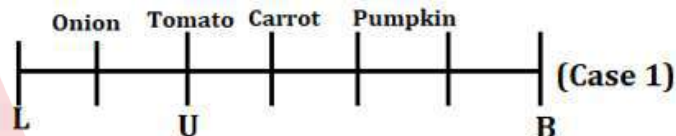
**Sol.** Four persons sit between B and the one who likes Onion. L sits immediate left of the one who likes Onion. L sits immediate left of the one who likes Onion. There are three possible cases as: -



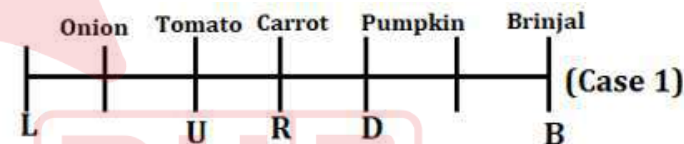
Three persons sit between L and the one who likes Pumpkin. B neither likes Pumpkin nor likes Carrot. Here, Case 2 and Case 3 is eliminated as not satisfying the given condition: -



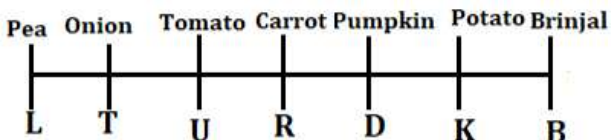
U likes Tomato and sits immediate left of the one who likes Carrot. B neither likes Pumpkin nor likes Carrot.



The number of persons sit to the right of D is one less than the number of persons sit to the left of R. One person sits between D and the one who likes Brinjal. R doesn't like pumpkin. So, D will sit 3<sup>rd</sup> from right end and R will sits at 4<sup>th</sup> from left end of the row.



K neither likes pea nor likes Onion. So, K will sit immediate left of B as no other place left according to the given condition and likes Potato. Also, we know T is one of the persons thus T will like Onion and pea is one of the vegetables which will be liked by L. Thus, the final arrangement is: -



All the persons given in the option sits at middle of the row except L who sits at the extreme end of the row.

**S30. Ans.(d)**

**Sol. Logic:** All numbers are arranged in ascending order from left to right in each step.

**Input:** 67 85 49 38 26 15

Step I: 15 67 85 49 38 26

Step II: 15 26 67 85 49 38

Step III: 15 26 38 67 85 49

Step IV: 15 26 38 49 67 85

67 is the 3<sup>rd</sup> element from left end in step II.



**S31. Ans.(b)**

**Sol. Logic:** All numbers are arranged in ascending order from left to right in each step.

**Input: 67 85 49 38 26 15**

Step I: 15 67 85 49 38 26

Step II: 15 26 67 85 49 38

Step III: 15 26 38 67 85 49

Step IV: 15 26 38 49 67 85

4<sup>th</sup> element from the right end in step III = 38

2<sup>nd</sup> element from the left end in last step = 26

Thus, the difference between is 38 - 26 = 12.

**S32. Ans.(a)**

**Sol. Logic:** All numbers are arranged in ascending order from left to right in each step.

**Input: 67 85 49 38 26 15**

Step I: 15 67 85 49 38 26

Step II: 15 26 67 85 49 38

Step III: 15 26 38 67 85 49

Step IV: 15 26 38 49 67 85

Four steps are required to get the output.

**S33. Ans.(c)**

**Sol. Logic:** All numbers are arranged in ascending order from left to right in each step.

**Input: 67 85 49 38 26 15**

Step I: 15 67 85 49 38 26

Step II: 15 26 67 85 49 38

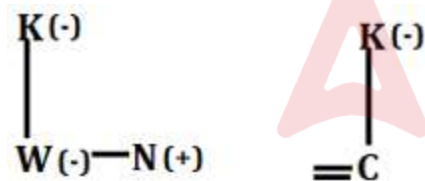
Step III: 15 26 38 67 85 49

Step IV: 15 26 38 49 67 85

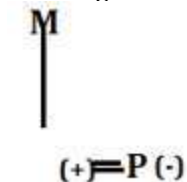
38 67 85 are in same order in step III.

**S34. Ans.(a)**

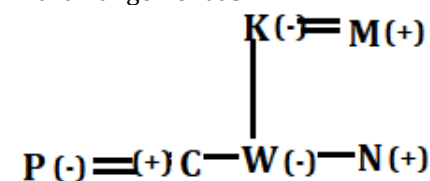
**Sol.** W is the only daughter of K who is mother of N. So, N will be son of K and brother of W. Also, C is the married child of K.



P is daughter-in-law of M.



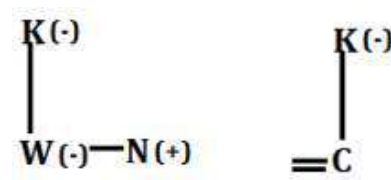
As the family has two married couple and two generation family so after combining the above diagrams, we get the final arrangement as: -



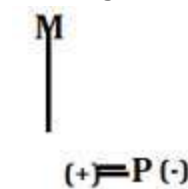
C is son of M.

**S35. Ans.(d)**

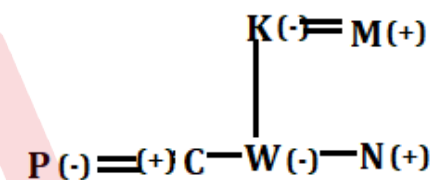
**Sol.** W is the only daughter of K who is mother of N. So, N will be son of K and brother of W. Also, C is the married child of K.



P is daughter-in-law of M.



As the family has two married couple and two generation family so after combining the above diagrams, we get the final arrangement as: -



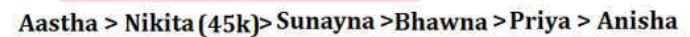
N is brother-in-law of P.

**S36. Ans.(b)**

**Sol.** Only two girls get less salary than Bhawna.



Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha. Thus, the final arrangement is: -



Nikita gets the 2<sup>nd</sup> highest salary.



**S37. Ans.(e)**

**Sol.** Only two girls get less salary than Bhawna.

\_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > Bhawna > \_\_\_\_\_ > \_\_\_\_\_

Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha. Thus, the final arrangement is: -

Aastha > Nikita (45k) > Sunayna > Bhawna > Priya > Anisha

The possible salary of Sunayna is 38k as Nikita gets 45k and Bhawna gets 30k.

**S38. Ans.(d)**

**Sol.** Only two girls get less salary than Bhawna.

\_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > Bhawna > \_\_\_\_\_ > \_\_\_\_\_

Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha. Thus, the final arrangement is: -

Aastha > Nikita (45k) > Sunayna > Bhawna > Priya > Anisha

Three girls (Bhawna, Priya, Anisha) get lower salary than Sunayna.

**S39. Ans.(b)**

**Sol.** Only two girls get less salary than Bhawna.

\_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > Bhawna > \_\_\_\_\_ > \_\_\_\_\_

Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha. Thus, the final arrangement is: -

Aastha > Nikita (45k) > Sunayna > Bhawna > Priya > Anisha

Two girls remain unchanged i.e., Aastha and Priya.

Aastha > Anisha > Bhawna > Nikita > Priya > Sunayna (alphabetical order)

**S40. Ans.(d)**

**Sol.** Only two girls get less salary than Bhawna.

\_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_ > Bhawna > \_\_\_\_\_ > \_\_\_\_\_

Nikita who gets 45k salary which is more than both Sunayna and Bhawna but lower than Aastha. Sunayna gets more salary than Priya who gets just more salary than Anisha. Thus, the final arrangement is: -

Aastha > Nikita (45k) > Sunayna > Bhawna > Priya > Anisha

Four girls get more salary than Priya.

**S41. Ans.(a)**

**Sol.**

Total tickets booked in train D = 800

Total tickets booked in train E = 600

Required percentage =  $\frac{800-600}{600} \times 100 = 33.33\%$

**S42. Ans.(c)**

**Sol.**

Total tickets booked in sleeper class in trains B & C together =  $(600 - 400) + (900 - 600) = 200 + 300 = 500$

Required ratio =  $500 : 500 = 1 : 1$

**S43. Ans.(d)**

**Sol.**

Total tickets booked in train F =  $(800 - 500) \times \frac{250}{100} = 750$

Total AC class tickets booked in train F =  $400 \times \frac{120}{100} = 480$

So, total sleeper class tickets booked in train F =  $750 - 480 = 270$

**S44. Ans.(b)**

**Sol.**

Total sleeper class tickets booked in trains A, B & C =  $(800 - 500) + (600 - 400) + (900 - 600) = 300 + 200 + 300 = 800$

Required average =  $\frac{800}{3} = 266\frac{2}{3}$

**S45. Ans.(b)**

**Sol.**

Total sleeper class tickets booked in train A =  $(800 - 500) = 300$

Total sleeper class tickets booked in train D & E =  $(800 - 500) + (600 - 500) = 300 + 100 = 400$

Required percentage =  $\frac{300}{400} \times 100 = 75\%$

**S46. Ans.(b)**

**Sol.**

Total girl students in school A =  $800 \times \frac{2}{5} = 320$

Total girl students in school E =  $1000 \times \frac{3}{10} = 300$

Required difference =  $320 - 300 = 20$

**S47. Ans.(b)**

**Sol.**

Total girl students in school B =  $600 \times \frac{3}{10} = 180$

Total girl students in school D =  $1200 \times \frac{7}{20} = 420$

Required average =  $\frac{420+180}{2} = 300$

**S48. Ans.(e)**

**Sol.**

Total boy students in school C =  $900 \times \frac{1}{2} = 450$

Total girl students in school E =  $1000 \times \frac{3}{10} = 300$

Required percentage =  $\frac{450-300}{300} \times 100 = 50\%$

**S49. Ans.(b)**

**Sol.**

Total students in school F =  $600 \times \frac{140}{100} = 840$

Total boy students in school F =  $800 \times \frac{3}{5} + 150 = 630$

So, total girl students in school F =  $840 - 630 = 210$

S50. Ans.(e)

Sol.

$$\begin{aligned} \text{Total boy students in school C \& D} &= 900 \times \frac{1}{2} + 1200 \times \frac{13}{20} \\ &= 450 + 780 \\ &= 1230 \\ \text{Total students in school B} &= 600 \\ \text{Required ratio} &= 1230 : 600 = 41 : 20 \end{aligned}$$

S51. Ans.(b)

Sol.

$$\begin{aligned} ? &= \frac{37}{8} + \frac{3}{2} - \frac{8}{3} \\ ? &= \frac{111+36-64}{24} \\ ? &= \frac{83}{24} \\ ? &= 3\frac{11}{24} \end{aligned}$$

S52. Ans.(d)

Sol.

$$\begin{aligned} 7 \times ? + 37 - 45 &= 13 \\ 7 \times ? &= 13 + 8 \\ 7 \times ? &= 21 \\ ? &= 3 \end{aligned}$$

S53. Ans.(b)

Sol.

$$\begin{aligned} 360 - \frac{80}{100} \times 1200 + 840 &= \frac{24}{100} \times ?^3 \\ 1200 - 960 &= \frac{24}{100} \times ?^3 \\ \frac{24}{100} \times ?^3 &= 240 \\ ?^3 &= 1000 \\ ? &= 10 \end{aligned}$$

S54. Ans.(a)

Sol.

$$\begin{aligned} \frac{28}{100} \times 75 + 6 \times ? &= 441 \\ 6 \times ? &= 441 - 21 \\ 6 \times ? &= 420 \\ ? &= 70 \end{aligned}$$

S55. Ans.(a)

Sol.

$$\begin{aligned} ? &= 3554 - 4896 + 1365 \\ ? &= 4919 - 4896 \\ ? &= 23 \end{aligned}$$

S56. Ans.(e)

Sol.

$$\begin{aligned} 300 \div 0.75 &= ? \\ ? &= 400 \end{aligned}$$

S57. Ans.(c)

Sol.

$$\begin{aligned} 150 \times 39 \div 3 - 950 &= ? \\ 1950 - 950 &= ? \\ ? &= 1000 \end{aligned}$$

S58. Ans.(c)

Sol.

$$\begin{aligned} 288 - 55 &= ? \\ ? &= 233 \end{aligned}$$

S59. Ans.(d)

Sol.

ATQ,

$$\begin{aligned} \text{Breadth of rectangular park} &= 7x \\ \text{So, length of rectangular park} &= 22x \\ 2 \times (22x + 7x) &= 2 \times \frac{22}{7} \times 203 \\ 2 \times 29x &= 1276 \\ x &= 22 \\ \text{So, breadth of park} &= 7 \times (22) \\ &= 154 \text{ m} \end{aligned}$$

S60. Ans.(a)

Sol.

$$\begin{aligned} \text{Let total capacity of tank} &= 60 \text{ unit (LCM of 20, 30 \& 5)} \\ \text{Efficiency of pipe A} &= \frac{60}{20} = 3 \text{ unit/hour} \\ \text{Efficiency of pipe B} &= \frac{60}{30} = 2 \text{ unit/hour} \\ \text{Efficiency of pipe C} &= \frac{60}{5} = 12 \text{ unit/hour (pipe C is empty tank)} \\ \text{Required time} &= \frac{(3+2) \times 20}{(12)} = \frac{25}{3} \text{ hours} \end{aligned}$$

S61. Ans.(b)

Sol.

$$\begin{aligned} \text{Let total work} &= 60 \text{ unit (LCM of 10 \& 12)} \\ \text{Efficiency of A} &= \frac{60}{10} = 6 \text{ unit/day} \\ \text{Efficiency of B} &= \frac{60}{12} = 5 \text{ unit/day} \\ \text{Total work done by B in 9 days} &= 5 \times 9 = 45 \text{ unit} \\ \text{Remaining work} &= 60 - 45 = 15 \text{ unit} \\ \text{Efficiency of C} &= \frac{6}{2} = 3 \text{ units/day} \\ \text{Required no. of days} &= \frac{15}{3} = 5 \text{ days} \end{aligned}$$

S62. Ans.(d)

Sol.

$$\begin{aligned} \text{Speed of boat in upstream} &= 10 \text{ km/hr} \\ \text{Speed of boat in downstream} &= 15 \text{ km/hr} \\ \text{Speed of boat in still water} &= \frac{10+15}{2} = 12.5 \text{ km/hr} \\ \text{Required total distance} &= 12.5 \times 4 = 50 \text{ km} \end{aligned}$$

**S63. Ans.(e)****Sol.**

Let present age of B = a

So, present age of A = (a + 6)

ATQ -

$$(a + a + 6) + 2 \times 2 = 34$$

$$2a = 34 - 10$$

$$a = 12 \text{ years}$$

$$\text{Present age of C} = (12 + 6) \times \frac{10}{9} = 20 \text{ years}$$

**S64. Ans.(a)****Sol.**

Let Principal = Rs. x

Equivalent rate of interest of compound interest for 2 years at 10% p.a.

$$= 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

Equivalent rate of interest of simple interest for 2 years at 10% p.a.

$$= 10 + 10 = 20\%$$

$$\frac{x \times (21 - 20)}{100} = 50$$

$$x = \text{Rs. } 5000$$

$$\text{Required interest} = 5000 \times 10 \times \frac{3}{100} = \text{Rs. } 1500$$

**S65. Ans.(a)****Sol.**Let two numbers be a and b respectively, where  $a > b$ 

$$a + b = 44 \dots\dots\dots(i)$$

$$\frac{50}{100} \times a = \frac{60}{100} \times b$$

$$5a = 6b \dots\dots\dots(ii)$$

From equations (i) and (ii) we get

$$a = 24 \text{ \& } b = 20$$

So, bigger number = 24

**S66. Ans.(a)****Sol.**Equivalent rate of interest of 10% p.a. at CI for 2 years =  $(10 + 10 + \frac{10 \times 10}{100})\%$ 

$$= 21\%$$

ATQ,

$$(X \times \frac{21}{100}) - (X \times \frac{10}{100}) = 4400$$

$$X = 40000 \text{ Rs.}$$

**S67. Ans.(a)****Sol.**

Let the five consecutive numbers be a, a+1, a+2, a+3, a+4 respectively.

ATQ,

$$\frac{a + a + 1}{2} = 17.5$$

$$a = 15$$

$$\frac{a + a + 1 + a + 2 + a + 3 + a + 4}{5} = X$$

$$\frac{5 \times 15 + 10}{5} = X$$

$$X = 17$$

**S68. Ans.(a)****Sol.**Length of bridge =  $450 \times 3 = 1350 \text{ m}$ 

Let the speed of the train be x kmph

ATQ,

$$x \times \frac{5}{18} = \frac{450 + 1350}{36}$$

$$x = 180 \text{ kmph}$$

**S69. Ans.(e)****Sol.**

Ratio of profit share of A, B and C =

$$= 10000 \times 12 : 12000 \times 12 : 12000 \times 9$$

$$= 10 : 12 : 9$$

$$\therefore \text{Profit share of C} = \frac{1200}{12} \times 9$$

$$= \text{Rs. } 900$$

**S70. Ans.(e)****Sol.**

Let marked price of article be Rs.100x.

$$\text{Selling price of article} = 100x \times \frac{70}{100} = \text{Rs. } 70x$$

$$\text{Cost price of article} = 70x \times \frac{100}{140} = \text{Rs. } 50x$$

ATQ

$$100x - 50x = 1500$$

$$x = 30$$

$$\text{So, selling price of article} = 70x = \text{Rs. } 2100$$

**S71. Ans.(e)****Sol.**

**I.**  $x^2 - 18x + 65 = 0$

$$x^2 - 13x - 5x + 65 = 0$$

$$x(x - 13) - 5(x - 13) = 0$$

$$(x - 13)(x - 5) = 0$$

$$x = 13, 5$$

**II.**  $y^2 - 10y + 21 = 0$

$$y^2 - 3y - 7y + 21 = 0$$

$$y(y - 3) - 7(y - 3) = 0$$

$$(y - 3)(y - 7) = 0$$

$$y = 3, 7$$

So, no relation.

**S72. Ans.(a)****Sol.**

**I.**  $4x^2 - 12x + 9 = 0$

$$4x^2 - 6x - 6x + 9 = 0$$

$$2x(2x - 3) - 3(2x - 3) = 0$$

$$(2x - 3)(2x - 3) = 0$$

$$x = \frac{3}{2}, \frac{3}{2}$$

**II.**  $3y^2 - 5y + 2 = 0$

$$3y^2 - 3y - 2y + 2 = 0$$

$$3y(y - 1) - 2(y - 1) = 0$$

$$(y - 1)(3y - 2) = 0$$

$$y = 1, \frac{2}{3}$$

So,  $x > y$ **S73. Ans.(e)****Sol.**

**I.**  $(x + 4)^2 = 16$

$$x + 4 = \pm 4$$

$$x = 0, -8$$

**II.**  $(y + 1)^2 = 49$

$$y + 1 = \pm 7$$

$$y = 6, -8$$

so, no relation between x and y.

S74. Ans.(b)

Sol.

I.  $x^2 + 9x - 8x - 72 = 0$

$x(x + 9) - 8(x + 9) = 0$

$(x - 8)(x + 9) = 0$

$x = 8, -9$

II.  $y^2 - 10y - 9y + 90 = 0$

$y(y - 10) - 9(y - 10) = 0$

$(y - 9)(y - 10) = 0$

$y = 9, 10$

so,  $x < y$

S75. Ans.(b)

Sol.

I.  $x^2 + 4x - 96 = 0$

$x^2 + 12x - 8x - 96 = 0$

$x(x + 12) - 8(x + 12) = 0$

$x = 8, -12$

II.  $y^2 - 28y + 196 = 0$

$y^2 - 14y - 14y + 196 = 0$

$y(y - 14) - 14(y - 14) = 0$

$y = 14, 14$

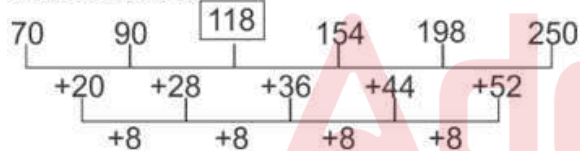
So,  $y > x$

S76. Ans.(d)

Sol.

Missing number = 118

Pattern of series -



S77. Ans.(c)

Sol.

Pattern of series-

$9 \times 2 + 1 = 19$

$19 \times 3 + 1 = 58$

$58 \times 4 + 1 = 233$

$233 \times 5 + 1 = 1166$

$1166 \times 6 + 1 = 6997$

S78. Ans.(c)

Sol.

Pattern of series -

$49 + 4 = 53$

$53 + 8 = 61$

$61 + 16 = 77$

$77 + 32 = 109$

$? = 109 + 64 = 173$

S79. Ans.(c)

Sol.

Pattern of series -

$128 \times 0.5 = 64$

$64 \times 1 = 64$

$64 \times 1.5 = 96$

$96 \times 2 = 192$

$? = 192 \times 2.5 = 480$

S80. Ans.(e)

Sol.

The given pattern of the series is:

$9 \times 2 - 1 = 17$

$17 \times 2 - 1 = 33$

$33 \times 2 - 1 = 65$

$65 \times 2 - 1 = 129$

$129 \times 2 - 1 = 257$

$257 \times 2 - 1 = 513$

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## Free Practice Paper 2

Directions (1-5): Study the following information carefully and answer the questions given below.

Eight persons F, K, D, I, S, V, L and R sit in a linear row in such a way that some of them face North direction while some of them face South direction but not necessarily in the same order. Not more than two persons sit adjacent to each other faces same direction.

One person sits between F and I who faces north direction. S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. Two persons sit between S and F. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row. R and V faces same direction but opposite to D. Number of persons sit to the right of F is more than the number of persons sit to the left of F.

**Q1.** Who among the following person sits at extreme left end of the row?

- (a) None of these
- (b) F
- (c) K
- (d) R
- (e) V

**Q2.** Who among the following person sits 2<sup>nd</sup> to the right of V?

- (a) S
- (b) F
- (c) K
- (d) I
- (e) D

**Q3.** How many persons face North direction?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) Five

**Q4.** How many persons sit between D and K?

- (a) None
- (b) Two
- (c) One
- (d) Four
- (e) Three

**Q5.** Which of the following statement is not true?

- (a) More than three persons sit to the right of F.
- (b) Two persons sit between I and L.
- (c) L and V are immediate neighbours of each other.
- (d) S faces north direction.
- (e) K and R sits at the extreme ends of the row.

Directions (6-10): In each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below, is/are definitely true and give your answer accordingly.

**Q6.**

**Statements:**  $H > K > E = Y < R > A > = D$

**Conclusions :**

I.  $K = R$

II.  $A > K$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusion I and II are true.

**Q7.**

**Statements:**  $Q > S < L \leq R = T < W = E$

**Conclusions:**

I.  $S < T$

II.  $E > L$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusion I and II are true.

**Q8.**

**Statements:**  $Q > S < L \leq R = T < W = E$

**Conclusions:**

I.  $S < T$

II.  $E > L$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusion I and II are true.

**Q9.**

**Statements:**  $Y > Q = I < L \geq E < U = W$

**Conclusions:**

I.  $Q > E$

II.  $E \geq Q$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusion I and II are true.

**Q10.**

**Statements:**  $A > F < J = U \leq M < S$

**Conclusions:**

I.  $F < M$

II.  $S < A$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If neither conclusion I nor II is true.
- (e) If both conclusion I and II are true.

Directions (11-14): **Study the following information carefully and answer the questions given below.**

There are eight persons live on 4 different floors of a building, such that lowermost floor of the building is numbered as 1 and just above 1 is numbered as 2 and so on till the topmost floor is numbered as 4. There are two flats on each floor- Flat A and Flat B from west to east such that Flat A is West of Flat B. Flat-A of second floor is exactly above Flat A of first floor and other flats are placed in same way.

U lives to the west of R who lives on an even numbered Floor. One floor gap between U and W and both lives in different named flat. P lives just below W but in different named flat. Two floors gap between S and Q who lives in west of T. V is one of the persons.

**Q11.** In which direction V lives with respect to Q?

- (a) South
- (b) South-East
- (c) West
- (d) North
- (e) North-East

**Q12.** Who among the following lives with V on the same floor?

- (a) P
- (b) None of these
- (c) S
- (d) Either P or W
- (e) W

**Q13.** Four of the following five are alike in a certain way and thus forms a group, then who among the following person doesn't belong to that group?

- (a) P
- (b) S
- (c) R
- (d) U
- (e) Q

**Q14.** Who among the following persons lives on 3<sup>rd</sup> floor?

- (a) P
- (b) S
- (c) V
- (d) Both P and S
- (e) Both P and V

Directions (15-16): **Study the following information carefully and answer the questions given below.**

There are nine members of three generation live in a family with three married couple. G is father of C who is a grandson of K. F is the only daughter of U who is mother of D. A is brother-in-law of G who has no siblings. M is daughter of L who is daughter-in-law of U. D is unmarried member of the family.

**Q15.** How U is related to G?

- (a) Mother
- (b) Sister
- (c) Sister-in-law
- (d) Mother-in-law
- (e) Aunt

**Q16.** How F is related to M?

- (a) Mother
- (b) Daughter
- (c) Sister
- (d) Aunt
- (e) Mother-in-law

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Directions (17-18): **Study the following information carefully and answer the questions given below.**

Six persons are arranged in a row according to the number of chocolates they have in descending order from left to right. At most two persons have more chocolates than P who has 24 chocolates. T has least number of chocolates. U has more chocolates than S but less than R who has 30 chocolates. Q has more chocolate than T but less than S. U has 28 chocolates.

**Q17.** Who among the following has 2<sup>nd</sup> least number of chocolates?

- (a) P
- (b) S
- (c) Q
- (d) Either S or Q
- (e) Either P or S

**Q18.** If Q has 15 chocolates, then S may have \_\_\_ numbers of chocolates?

- (a) 10
- (b) 12
- (c) 20
- (d) 25
- (e) 5

**Q19.** How many such pair of letters are there in the word "LEADERSHIP", each of which have as many letters between them as they have in English alphabet (from both forward and backward direction)?

- (a) Four
- (b) Three
- (c) More than five
- (d) Two
- (e) Five

Directions (20-24): **Study the following information carefully and answer the questions given below.**

Seven persons live on seven different floor of a building such that ground floor is numbered as 1 and just above the 1<sup>st</sup> floor is numbered as 2 and so on till the top most floor is numbered as 7. Each of them like seven different fruits i.e., Apple, Mango, Orange, Banana, Kiwi, Strawberry and Grapes but not necessary in the same order.

R lives on 3<sup>rd</sup> floor but doesn't like Apple. Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. The one who likes Grapes live on 5<sup>th</sup> floor. One person lives between R and V who doesn't like Grapes. U likes Strawberry. V neither likes Kiwi nor likes Apple. P lives below T and above S who doesn't like Mango.

**Q20.** Who among the following likes Banana?

- (a) Q
- (b) R
- (c) S
- (d) T
- (e) V

**Q21.** U lives on which of the following floor?

- (a) 6<sup>th</sup> floor
- (b) 7<sup>th</sup> floor
- (c) 4<sup>th</sup> floor
- (d) 2<sup>nd</sup> floor
- (e) 1<sup>st</sup> floor

**Q22.** How many persons live between the one who likes Kiwi and T?

- (a) None
- (b) One
- (c) Two
- (d) Four
- (e) Three

**Q23.** Who among the following lives on 4<sup>th</sup> floor?

- (a) S
- (b) U
- (c) P
- (d) T
- (e) V

**Q24.** Who among the following likes Grapes?

- (a) T
- (b) V
- (c) Q
- (d) S
- (e) None of these

Directions (25-29): **Study the following information carefully and answer the questions given below.**

In a certain code language:

"Education is the foundation" is coded as "dt dn am ze"

"The way of education" is coded as "am yw dt og"

"Foundation of right way" is coded as "dn og gr yw"

"Right time of education" is coded as "gr mt og dt"

**Q25.** What is the code for the word "Education"?

- (a) ze
- (b) dt
- (c) am
- (d) og
- (e) mt



**Q26.** Which word is coded as “gr”?

- (a) Foundation
- (b) Time
- (c) Right
- (d) Of
- (e) Way

**Q27.** What is the code for the word “Foundation”?

- (a) dt
- (b) og
- (c) yw
- (d) dn
- (e) mt

**Q28.** What is the code for the words “Right Time”?

- (a) gr yw
- (b) og gr
- (c) ze dt
- (d) mt og
- (e) gr mt

**Q29.** If “Right Digital Education” is coded as “gt gr dt”, then what will be the code for the word “Digital”?

- (a) gr
- (b) dt
- (c) gt
- (d) Either gr or dt
- (e) Either dt or gt

Directions (30-34): **Study the following information carefully and answer the questions given below.**

Nine persons A, D, E, W, V, R, B, S and T were born on three different dates i.e., 12<sup>th</sup>, 21<sup>st</sup> and 29<sup>th</sup> of three given months viz. March, September and October of a year but not necessarily in the same order.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. S and A were born in odd numbered date of same month. One person born between V and T. R and W were born in same date. E born just after A. At least one person born after W.

**Q30.** Who among the following was born on 29<sup>th</sup> October?

- (a) D
- (b) S
- (c) A
- (d) R
- (e) W

**Q31.** How many persons were born between A and the one who was born on 12<sup>th</sup> October?

- (a) None
- (b) Two
- (c) Three
- (d) One
- (e) Four

**Q32.** Four of the following five pairs are alike in a certain way and thus forms a group, which among the following doesn't belong to that group?

- (a) D, A
- (b) E, W
- (c) S, T
- (d) B, R
- (e) W, V

**Q33.** D was born on which of the following Date and Month?

- (a) 12<sup>th</sup>-September
- (b) 29<sup>th</sup>-October
- (c) 12<sup>th</sup>- March
- (d) 21<sup>st</sup>-September
- (e) 12<sup>th</sup>- October

**Q34.** How many persons were born after E?

- (a) Two
- (b) Three
- (c) Four
- (d) Six
- (e) Five

Directions (35-37): **Study the following information carefully and answer the questions given below.**

Anisha starts walking straight towards east from Point A. After walking 5km, reaches Point R, then she takes a right turn and walks 8km to reach Point C, then she takes a left turn and walks 3km to reach Point S from there she takes a left turn to reach Point B and walks 8km. She reaches at Point U after walking 2km right from Point B.

**Q35.** In which direction is Point S with respect to Point A?

- (a) South
- (b) North-East
- (c) East
- (d) South-East
- (e) West

**Q36.** What is the total distance covered by her from Point C to Point U?

- (a) 12 km
- (b) 13 km
- (c) 11 km
- (d) 10 km
- (e) 8 km

**Q37.** What is the shortest distance between Point A and Point C?

- (a)  $\sqrt{136}$  km
- (b)  $\sqrt{64}$  km
- (c) 8 km
- (d) 6 km
- (e) None of these

Directions (38-40): In each of the questions, some statements are given below followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q38. Statements:** I. Some A are B. No C is D. Only a few B are C.

**Conclusions:**

- I. All C can be B.
- II. Some D can be A.
- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If both conclusion I and II follow.
- (e) If neither Conclusion I nor II Follows.

**Q39. Statements:** I. Only Rules are Follow. Some Rules are Regulations. No Rules are Valid.

**Conclusions:**

- I. Some Follow can be Valid.
- II. No regulations are Valid.
- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If both conclusion I and II follow.
- (e) If neither Conclusion I nor II Follows.

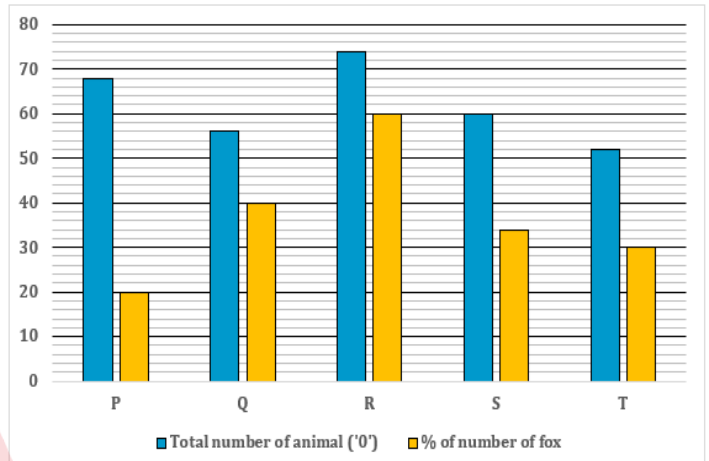
**Q40. Statements:** I. Some Numbers are Digits. No Digits are Factors. Some Factors are Numbers.

**Conclusions:**

- I. All Numbers can be Digits.
- II. All Factors can be Numbers
- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If both conclusion I and II follow.
- (e) If neither Conclusion I nor II Follows.

Directions (41-45): Bar graph given below shows total number of animals in five (P, Q, R, S & T) different towns and percentage distribution of number of foxes in these towns. Read the following bar graph carefully and answer the questions given below.

Note: Total number of animals in any town = (Total Foxes + Total Crocodiles)



**Q41.** If total number of animals in F is  $\frac{11}{8}$ th of total number of crocodiles in R and the ratio of total number of foxes in F to that in Q is 9:16, then find the number of crocodiles in F.

- (a) 267
- (b) 281
- (c) 298
- (d) 254
- (e) 265

**Q42.** Find the ratio of number of foxes in P to number of crocodiles in T.

- (a) 34 :91
- (b) 34 :97
- (c) 39 :89
- (d) 31 :91
- (e) None of these

**Q43.** If number of elephants in S is 25% more than number of foxes in Q, then find the difference between number of elephants in S and number of crocodiles in P?

- (a) 245
- (b) 267
- (c) 259
- (d) 264
- (e) 272

**Q44.** If the ratio of number of mugger crocodiles to saltwater crocodiles in P is 5:3, then find number of mugger crocodiles is what percent more or less than total number of animals in S?

- (a)  $44\frac{1}{3}\%$   
 (b)  $42\frac{1}{3}\%$   
 (c)  $41\frac{1}{3}\%$   
 (d)  $40\frac{1}{3}\%$   
 (e)  $43\frac{1}{3}\%$

**Q45.** Find the average number of foxes in Q, S and R?

- (a)  $290\frac{1}{3}$   
 (b)  $289\frac{2}{3}$   
 (c)  $294\frac{2}{3}$   
 (d)  $290\frac{2}{3}$   
 (e)  $285\frac{2}{3}$

Directions (46-50): **What will come in the place of question (?) mark in following number series:**

**Q46.** 86, 44, 42, 67, ?, 331

- (a) 126  
 (b) 119  
 (c) 145  
 (d) 102  
 (e) 86

**Q47.** 1045, 1045, 1051, 1027, 1087, ?

- (a) 924  
 (b) 982  
 (c) 946  
 (d) 967  
 (e) 978

**Q48.** 312, ?, 329, 342, 364, 402

- (a) 316  
 (b) 320  
 (c) 312  
 (d) 324  
 (e) 321

**Q49.** 21, 24, 30, 39, ?, 66

- (a) 56  
 (b) 48  
 (c) 50  
 (d) 51  
 (e) 54

**Q50.** ?, 44, 11, 19, 4.75, 12.75

- (a) 36  
 (b) 38  
 (c) 32  
 (d) 22  
 (e) 11.5

**Q51.** An Alloy 'K' contains 40% silver and rest 33 gram of gold. Another alloy 'J' contains 55% gold and rest 63-gram silver. When two alloys are melted and mixed together to form a new alloy, then find the ratio of silver to gold in resultant alloy.

- (a) 17 :21  
 (b) 19 :22  
 (c) 15 :22  
 (d) 17 :22  
 (e) 17 :24

**Q52.** P and Q together can do a work in 24 days while Q and R together can do the same work in 18 days. P worked on it for 4 days, Q worked on it for 16 days and R completed the remaining work in 18 days. Find the time taken by Q alone to complete the whole work.

- (a) 18 days  
 (b) 24 days  
 (c) 12 days  
 (d) 44 days  
 (e) 36 days

**Q53.** 260-meter-long train Z is running with a speed of 54 km/h. Train Y which 340 meter long is running with speed of 72 km/h in opposite direction of train Z. In how much time train Z is completely obscured by train Y?

- (a)  $\frac{16}{9}$  sec/ सेकंड  
 (b)  $\frac{16}{5}$  sec/ सेकंड  
 (c)  $\frac{16}{11}$  sec/ सेकंड  
 (d)  $\frac{16}{7}$  sec/ सेकंड  
 (e)  $\frac{14}{9}$  sec/ सेकंड

**Q54.** five years ago, the ratio of the ages of Sia and Pia was 7:8 respectively. If the ratio of present age of Sia to that of Pia is 11:12 respectively, then find the age of Pia after eight years.

- (a) 29 years
- (b) 22 years
- (c) 25 years
- (d) 20 years
- (e) 23 years

**Q55.** The S.I. obtained on a principal of Rs.16000 after 4 years at 'R' rate of interest is Rs.3600 more than the S.I. obtained on a principal of Rs.20000 after 2 years at the same rate of interest. Find the value of 'R'.

- (a) 18
- (b) 12
- (c) 20
- (d) 15
- (e) 11

**Directions (56-60):** Read the following table carefully and answer the questions given below. The table shows the number of huts and difference between number of farms and huts in five different villages.

**Note:** (i) Number of farms are more than number of huts in each village.

(ii) Village W has 75 huts more than village Y.

Village/ गाँव	Number of huts / झोपड़ियों की संख्या	Difference between number of farms and huts/ खेतों और झोपड़ियों की संख्या के बीच का अंतर
U	8x	180
V	18x	205
W	15x	115
X	7x	85
Y	10x	140

**Q56.** Average number of farms in Y and W is how much more/less than average number of huts in U and V.

- (a) 130
- (b) 120
- (c) 110
- (d) 115
- (e) 125

**Q57.** Number of farms in Z is 45% more than that in W. Ratio of number of huts in X and Z is 5:8 respectively. Find the sum of number of farms and huts in Z.

- (a) 661
- (b) 665
- (c) 676
- (d) 654
- (e) 645

**Q58.** Find the ratio between number of huts in V to number of farms in Y.

- (a) 27 :28
- (b) 29 :27
- (c) 25 :21
- (d) 27 :29
- (e) 27 :22

**Q59.** Number of farms in U is how much percent more/less than number of huts in W?

- (a)  $32\frac{1}{2}\%$
- (b)  $14\frac{2}{7}\%$
- (c) 25%
- (d) 50%
- (e)  $33\frac{1}{3}\%$

**Q60.** Number of fields in V is  $\frac{11}{19}$ th number of farms in X. Find the difference between number of huts in U and number of fields in V.

- (a) 12
- (b) 14
- (c) 18
- (d) 10
- (e) 20

**TEST SERIES**

**BILINGUAL**

**VIDEO SOLUTIONS**

**IBPS 2023**

**RRB PO**

**PRELIMS + MAINS**

**210+ TOTAL TESTS**

Directions (61-65): In each of these questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

I.  $x^2 + x - 12 = 0$

Q61. II.  $y^2 - 9y + 14 = 0$

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$

I.  $6x^2 + 5x + 1 = 0$

Q62. II.  $4y^2 - 15y = 4$

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$

I.  $3x^2 + x - 2 = 0$

Q63. II.  $12y^2 + 7y + 1 = 0$

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$

I.  $x^2 + 13x + 42 = 0$

Q64. II.  $y^2 + 8y + 12 = 0$

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$

I.  $1 = \frac{1}{x} \left( 2 - \frac{11}{36x} \right)$

Q65. II.  $\left( \frac{14y}{3} + \frac{9}{y} \right) = 13$

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$

Directions (66-70): Read the following data carefully and answer the questions given below. The data is about total number of movies (comedy and horror) released in two different years.

Comedy movies released in 2021 is 50. Ratio of comedy movies released in 2020 and horror movies released in 2021 is 3:2 respectively. Horror movies released in 2020 is  $33\frac{1}{3}\%$  more than comedy movies released in 2020. Average number of horror movies released in 2020 and comedy movies released in 2021 is 105.

Q66. Comedy movies released in 2020 is what percent more/less than horror movies released in same year?

- (a) 25%
- (b) 30%
- (c) 20%
- (d) 40%
- (e)  $33\frac{1}{3}\%$

Q67. Find the ratio between horror movies released in 2021 to comedy movies released in 2020?

- (a) 2:5
- (b) 2:3
- (c) 5:2
- (d) 1:4
- (e) 5:3

Q68. Comedy movies released in 2022 is 32.5% more than horror movies released in 2020. Find the average number of comedy movies released in all the three years.

- (a)  $124\frac{1}{3}$
- (b)  $126\frac{1}{3}$
- (c)  $129\frac{1}{3}$
- (d)  $127\frac{1}{3}$
- (e)  $122\frac{1}{3}$

Q69. Horror movies released in 2019 is 20% less than comedy movies released in 2021. Ratio of comedy movies released in 2019 to 2020 is 5:4 respectively. Find the total number of movies (Comedy + Horror) released in 2019.

- (a) 125
- (b) 140
- (c) 180
- (d) 200
- (e) 190

**Q70.** Find the difference between total movies released in 2020 and that in 2021.

- (a) 120
- (b) 145
- (c) 160
- (d) 150
- (e) 190

**Q71.** P, Q and R invested Rs.1800, Rs.2400 & Rs.2800 in a business for 6 months, 9 months & 12 months respectively. If profit share of Q is Rs.1440, then find the difference between profit share of R and P.

- (a) Rs.1620
- (b) Rs.1520
- (c) Rs.1440
- (d) Rs.1280
- (e) Rs.1580

**Q72.** The volume of a cylinder is  $1540 \text{ cm}^3$  and height of the cylinder is 10 cm. If length of the rectangle is  $14\frac{2}{7}\%$  more than radius of the cylinder and perimeter of the rectangle is 26 cm, then find the area of rectangle?

- (a)  $40 \text{ cm}^2$
- (b)  $36 \text{ cm}^2$
- (c)  $45 \text{ cm}^2$
- (d)  $54 \text{ cm}^2$
- (e)  $72 \text{ cm}^2$

**Q73.** Shopkeeper marked a jean 45% above its cost price and sold it after allowing a discount of 40%. If he sold a shirt for Rs.435 and earned same loss percentage as earned on selling the jeans, then find the cost price of shirt?

- (a) Rs.545
- (b) Rs.570
- (c) Rs.470
- (d) Rs.500
- (e) Rs.600

**Q74.** Average age of the class is 45 years and average age of boys and girls is 48 years and 40 years respectively. If total student in a class is 72 then find the no. of girls in a class.

- (a) 45
- (b) 27
- (c) 36
- (d) 18
- (e) 54

**Q75.** The ratio of the speed of boat 'g' and boat 'h' in still water is 4:5 respectively. The speed of current is 15 km/h. Boat 'h' takes 4.5 hours to travel 180 km downstream. Find the time taken by boat 'g' to travel 120 km upstream.

- (a) 20 hours
- (b) 36 hours
- (c) 24 hours
- (d) 12 hours
- (e) 8 hours

Directions (76-80): **The following questions are accompanied by two statements i.e. statement (I) and statement (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.**

**Q76.** Find the area of rectangle.

**Statement (I)** Area of square is  $64 \text{ cm}^2$ .

**Statement (II)** Side of square is half the length of rectangle. Ratio of breadth to length of rectangle is 3:4 respectively.

- (a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- (d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions

**Q77.** Find the cost price of article.

**Statement (I)** Shopkeeper marked the article 40% above the cost price and allow 25% discount on marked price. Difference between selling price and marked price of the article is Rs.210.

**Statement (II)** Ratio of cost price and discount price of the article is 5:8 respectively.

- (a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- (d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions



**Q78.** Find the time taken by D to complete the whole work.

**Statement (I)** A, B and C can complete the work in 15 days, 18 days and 20 days respectively.

**Statement (II)** Efficiency of D is 20% more than that of B.

(a) Neither statement **(I)** nor statement **(II)** by itself is sufficient to answer the question.

(b) Statement **(II)** alone is sufficient to answer the question but statement **(I)** alone is not sufficient to answer the question.

(c) Either statement **(I)** or statement **(II)** by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(e) Statement **(I)** alone is sufficient to answer the question but statement **(II)** alone is not sufficient to answer the questions

**Q79.** Find the time taken by boat to cover 195 km in downstream.

**Statement (I)** Ratio of speed of boat in still water to current is 8:5 respectively.

**Statement (II)** The boat can travel 180 km in upstream in 6 hours.

(a) Neither statement **(I)** nor statement **(II)** by itself is sufficient to answer the question.

(b) Statement **(II)** alone is sufficient to answer the question but statement **(I)** alone is not sufficient to answer the question.

(c) Either statement **(I)** or statement **(II)** by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(e) Statement **(I)** alone is sufficient to answer the question but statement **(II)** alone is not sufficient to answer the questions

**Q80.** P, A and D invested Rs.94500 in a business in the ratio 7: 9: 5 respectively for a year. What is the profit % earned by them after a year?

**Statement (I)** D got Rs. 4500 as his share of profit.

**Statement (II)** The difference in profit earned by P and D is Rs.1800.

(a) Neither statement **(I)** nor statement **(II)** by itself is sufficient to answer the question.

(b) Statement **(II)** alone is sufficient to answer the question but statement **(I)** alone is not sufficient to answer the question.

(c) Either statement **(I)** or statement **(II)** by itself is sufficient to answer the question.

(d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

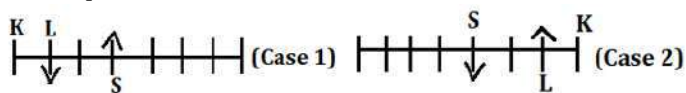
(e) Statement **(I)** alone is sufficient to answer the question but statement **(II)** alone is not sufficient to answer the questions

## Solutions

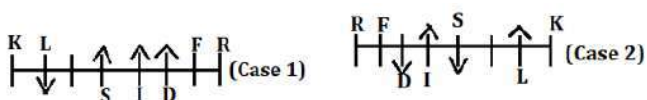
**S1. Ans. (d)**

**Sol.** R sits at extreme left end of the row.

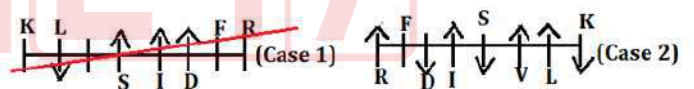
S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. There are two possible cases: -



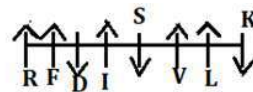
Two persons sit between S and F. One person sits between F and I who faces north direction. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row.



Not more than two persons sit adjacent to each other faces same direction. Here case 1 is ruled out as not satisfying the condition. R and V faces same direction but opposite to D.



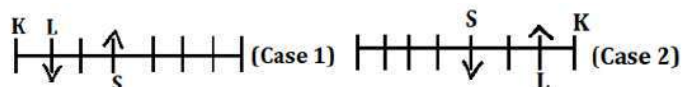
Number of persons sit to the right of F is more than the number of persons sit to the left of F, then F faces north. So, the final arrangement is: -



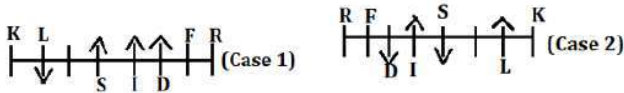
**S2. Ans. (c)**

**Sol.** K sits 2<sup>nd</sup> to the right of V.

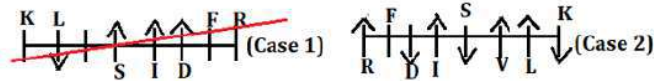
S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. There are two possible cases: -



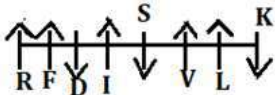
Two persons sit between S and F. One person sits between F and I who faces north direction. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row.



Not more than two persons sit adjacent to each other faces same direction. Here case 1 is ruled out as not satisfying the condition. R and V faces same direction but opposite to D.



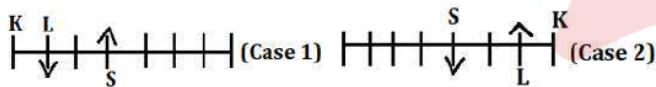
Number of persons sit to the right of F is more than the number of persons sit to the left of F, then F faces north. So, the final arrangement is: -



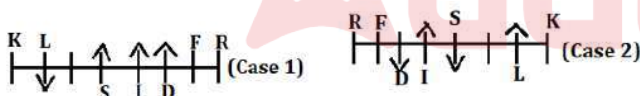
**S3. Ans. (e)**

**Sol.** Five persons face north direction.

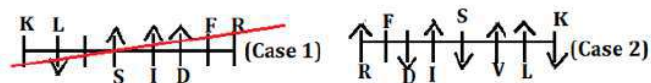
S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. There are two possible cases: -



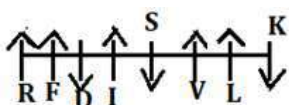
Two persons sit between S and F. One person sits between F and I who faces north direction. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row.



Not more than two persons sit adjacent to each other faces same direction. Here case 1 is ruled out as not satisfying the condition. R and V faces same direction but opposite to D.



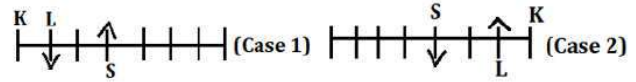
Number of persons sit to the right of F is more than the number of persons sit to the left of F, then F faces north. So, the final arrangement is: -



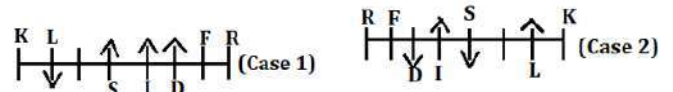
**S4. Ans. (d)**

**Sol.** Four persons sit between D and K.

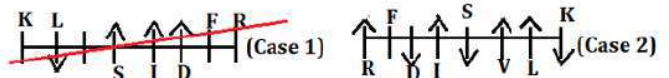
S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. There are two possible cases: -



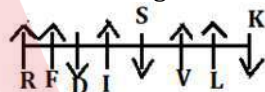
Two persons sit between S and F. One person sits between F and I who faces north direction. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row.



Not more than two persons sit adjacent to each other faces same direction. Here case 1 is ruled out as not satisfying the condition. R and V faces same direction but opposite to D.



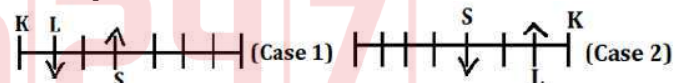
Number of persons sit to the right of F is more than the number of persons sit to the left of F, then F faces north. So, the final arrangement is: -



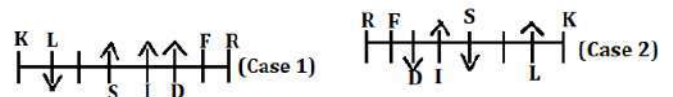
**S5. Ans. (d)**

**Sol.** All options are true except option (d).

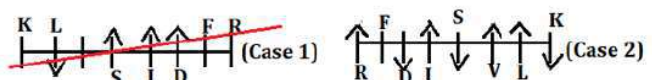
S sits 2<sup>nd</sup> to the left of L who is the only neighbour of K and both S and L face opposite direction to each other. There are two possible cases: -



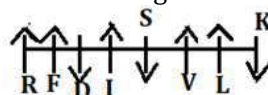
Two persons sit between S and F. One person sits between F and I who faces north direction. R sits 2<sup>nd</sup> to the right of D who does not sit at any end of the row.



Not more than two persons sit adjacent to each other faces same direction. Here case 1 is ruled out as not satisfying the condition. R and V faces same direction but opposite to D.



Number of persons sit to the right of F is more than the number of persons sit to the left of F, then F faces north. So, the final arrangement is: -





**S6. Ans. (d)**

**Sol.** I.  $K = R$  (False)      II.  $A > K$  (False)

**S7. Ans. (e)**

**Sol.** I.  $S < T$  (True)      II.  $E > L$  (True)

**S8. Ans. (d)**

**Sol.** I.  $T > S$  (False)      II.  $R \leq E$  (False)

**S9. Ans. (c)**

**Sol.** I.  $Q > E$  (False)      II.  $E \geq Q$  (False)

**S10. Ans. (a)**

**Sol.** I.  $F < M$  (True)      II.  $S < A$  (False)

**S11. Ans. (e)**

**Sol.** V lives in north-east direction with respect to Q. U lives to the west of R who lives on an even numbered Floor. One floor gap between U and W and both lives in different named flat. P lives just below W but in different named flat. There are two possible cases: -

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R		W
3			P	
2		W	U	R
1	P			

Two floors gap between S and Q who lives in west of T. Here case 1 is eliminated because there is no two places gap left for placing S and Q.

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R	S	W
3			P	
2		W	U	R
1	P		Q	T

V is one of the persons. So, the final arrangement is: -

Floors	Persons	
	Flat A	Flat B
4	S	W
3	P	V
2	U	R
1	Q	T

**S12. Ans. (a)**

**Sol.** P and V lives on the same floor.

U lives to the west of R who lives on an even numbered Floor. One floor gap between U and W and both lives in different named flat. P lives just below W but in different named flat. There are two possible cases: -

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R		W
3			P	
2		W	U	R
1	P			

Two floors gap between S and Q who lives in west of T. Here case 1 is eliminated because there is no two places gap left for placing S and Q.

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R	S	W
3			P	
2		W	U	R
1	P		Q	T

V is one of the persons. So, the final arrangement is: -

Floors	Persons	
	Flat A	Flat B
4	S	W
3	P	V
2	U	R
1	Q	T



**S13. Ans. (c)**

**Sol.** All the persons given in the options live in Flat A except R.

U lives to the west of R who lives on an even numbered Floor. One floor gap between U and W and both lives in different named flat. P lives just below W but in different named flat. There are two possible cases: -

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R		W
3			P	
2		W	U	R
1	P			

Two floors gap between S and Q who lives in west of T. Here case 1 is eliminated because there is no two places gap left for placing S and Q.

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R	S	W
3			P	
2		W	U	R
1	P		Q	T

V is one of the persons. So, the final arrangement is: -

Floors	Persons	
	Flat A	Flat B
4	S	W
3	P	V
2	U	R
1	Q	T

**S14. Ans. (e)**

**Sol.** Both P and V live on 3<sup>rd</sup> floor.

U lives to the west of R who lives on an even numbered Floor. One floor gap between U and W and both lives in different named flat. P lives just below W but in different named flat. There are two possible cases: -

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R		W
3			P	
2		W	U	R
1	P			

Two floors gap between S and Q who lives in west of T. Here case 1 is eliminated because there is no two places gap left for placing S and Q.

Floors	Case 1		Case 2	
	Flat A	Flat B	Flat A	Flat B
4	U	R	S	W
3			P	
2		W	U	R
1	P		Q	T

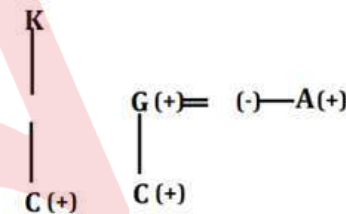
V is one of the persons. So, the final arrangement is: -

Floors	Persons	
	Flat A	Flat B
4	S	W
3	P	V
2	U	R
1	Q	T

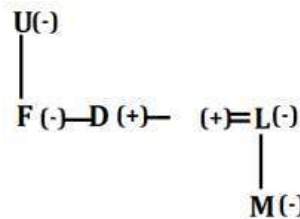
**S15. Ans. (d)**

**Sol.** U is Mother-in-law of G.

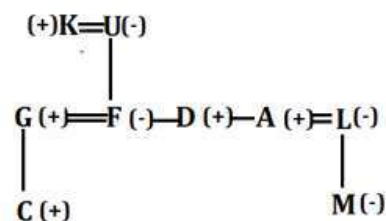
G is father of C who is a grandson of K. A is brother-in-law of G who has no siblings.



F is the only daughter of U who is mother of D. Hence, D will be son of U and D is unmarried member of the family. M is daughter of L who is daughter-in-law of U. Hence U will have one more son who is married to L as there are nine members of three generation live in a family with three married couple.



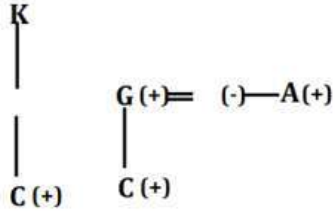
As there are three married couple then K is married to U. Hence, after combining both the above diagram we get the final arrangement: -



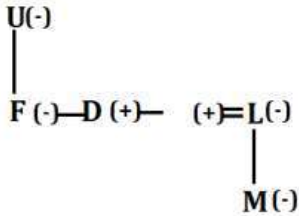
**S16. Ans. (d)**

**Sol.** F is Aunt of M.

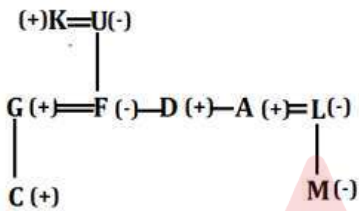
G is father of C who is a grandson of K. A is brother-in-law of G who has no siblings.



F is the only daughter of U who is mother of D. Hence, D will be son of U and D is unmarried member of the family. M is daughter of L who is daughter-in-law of U. Hence U will have one more son who is married to L as there are nine members of three generation live in a family with three married couple.



As there are three married couple then K is married to U. Hence, after combining both the above diagram we get the final arrangement: -



**S17. Ans. (c)**

**Sol.** Q has 2<sup>nd</sup> least number of chocolates.

At most two persons have more chocolates than P who has 24 chocolates. T has least number of chocolates. There are 3 possible cases: -

~~$P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 1)~~

~~$\underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 2)~~

~~$\underline{\quad} > \underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > T$  (Case 3)~~

U has more chocolates than S but less than R who has 30 chocolates. U has 28 chocolates. Here case 1 is ruled out as R has 30 chocolates and P has 24 chocolates, so R should be placed to the left of P. Also, case 2 is eliminated as U has 28 chocolates and R has 30 chocolates then U should be placed in middle of P and R.

~~$P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 1)~~

~~$\underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 2)~~

$R(30) > U(28) > P(24) > \underline{\quad} > \underline{\quad} > T$  (Case 3)

Q has more chocolates than T but less than S. So, The final arrangement is:

$R(30) > U(28) > P(24) > S > Q > T$

**S18. Ans. (c)**

**Sol.** S will have 20 chocolates.

At most two persons have more chocolates than P who has 24 chocolates. T has least number of chocolates. There are 3 possible cases: -

~~$P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 1)~~

~~$\underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 2)~~

~~$\underline{\quad} > \underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > T$  (Case 3)~~

U has more chocolates than S but less than R who has 30 chocolates. U has 28 chocolates. Here case 1 is ruled out as R has 30 chocolates and P has 24 chocolates, so R should be placed to the left of P. Also, case 2 is eliminated as U has 28 chocolates and R has 30 chocolates then U should be placed in middle of P and R.

~~$P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 1)~~

~~$\underline{\quad} > P(24) > \underline{\quad} > \underline{\quad} > \underline{\quad} > T$  (Case 2)~~

$R(30) > U(28) > P(24) > \underline{\quad} > \underline{\quad} > T$  (Case 3)

Q has more chocolates than T but less than S. So, The final arrangement is:

$R(30) > U(28) > P(24) > S > Q > T$

**S19. Ans. (c)**

**Sol.** There are Eight pairs in the given word from both forward and backward directions.



**S20. Ans. (e)**

**Sol.** V likes Banana.

Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. R lives on 3<sup>rd</sup> floor. The one who likes Grapes live on 5<sup>th</sup> floor. There are two possible cases: -

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7				
6	Q			Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	
1				

One person lives between R and V who doesn't like Grapes. U likes Strawberry, then U will live on 7<sup>th</sup> floor in both the cases as there is no other vacant place left for U. R doesn't like Apple, V neither likes Kiwi nor likes Apple, so, Q will like Apple.

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple		Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	Apple
1	V		V	

P lives below T and above S who doesn't like Mango. Here case 2 is ruled out as not satisfying the condition.

Floors	Case 1		Case-2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple	T	Orange
5	T	Grapes	P	Grapes
4	P	Mango		Mango
3	R		R	
2	S	Orange	Q	Apple
1	V		V	

Now, two fruits left for two persons so R will like Kiwi as V doesn't like Kiwi and the remaining fruit i.e., Banana will be liked by V. So, the final arrangement is: -

Floors	Persons	Fruits
7	U	Strawberry
6	Q	Apple
5	T	Grapes
4	P	Mango
3	R	Kiwi
2	S	Orange
1	V	Banana

**S21. Ans. (b)**

**Sol.** U lives on 7<sup>th</sup> floor.

Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. R lives on 3<sup>rd</sup> floor. The one who likes Grapes live on 5<sup>th</sup> floor. There are two possible cases: -

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7				
6	Q			Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	
1				

One person lives between R and V who doesn't like Grapes. U likes Strawberry, then U will live on 7<sup>th</sup> floor in both the cases as there is no other vacant place left for U. R doesn't like Apple, V neither likes Kiwi nor likes Apple, so, Q will like Apple.

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple		Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	Apple
1	V		V	

P lives below T and above S who doesn't like Mango. Here case 2 is ruled out as not satisfying the condition.

Floors	Case 1		Case-2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple	T	Orange
5	T	Grapes	P	Grapes
4	P	Mango		Mango
3	R		R	
2	S	Orange	Q	Apple
1	V		V	

Now, two fruits left for two persons so R will like Kiwi as V doesn't like Kiwi and the remaining fruit i.e., Banana will be liked by V. So, the final arrangement is: -

Floors	Persons	Fruits
7	U	Strawberry
6	Q	Apple
5	T	Grapes
4	P	Mango
3	R	Kiwi
2	S	Orange
1	V	Banana

**S22. Ans. (b)**

**Sol.** One person lives between the one who likes Kiwi and T.

Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. R lives on 3<sup>rd</sup> floor. The one who likes Grapes live on 5<sup>th</sup> floor. There are two possible cases: -

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7				
6	Q			Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	
1				

One person lives between R and V who doesn't like Grapes. U likes Strawberry, then U will live on 7<sup>th</sup> floor in both the cases as there is no other vacant place left for U. R doesn't like Apple, V neither likes Kiwi nor likes Apple, so, Q will like Apple.

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple		Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	Apple
1	V		V	

P lives below T and above S who doesn't like Mango. Here case 2 is ruled out as not satisfying the condition.

Floors	Case 1		Case-2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple	T	Orange
5	T	Grapes	P	Grapes
4	P	Mango		Mango
3	R		R	
2	S	Orange	Q	Apple
1	V		V	

Now, two fruits left for two persons so R will like Kiwi as V doesn't like Kiwi and the remaining fruit i.e., Banana will be liked by V. So, the final arrangement is: -

Floors	Persons	Fruits
7	U	Strawberry
6	Q	Apple
5	T	Grapes
4	P	Mango
3	R	Kiwi
2	S	Orange
1	V	Banana

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**S23. Ans. (c)**

**Sol.** P lives on 4<sup>th</sup> Floor.

Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. R lives on 3<sup>rd</sup> floor. The one who likes Grapes live on 5<sup>th</sup> floor. There are two possible cases: -

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7				
6	Q			Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	
1				

One person lives between R and V who doesn't like Grapes. U likes Strawberry, then U will live on 7<sup>th</sup> floor in both the cases as there is no other vacant place left for U. R doesn't like Apple, V neither likes Kiwi nor likes Apple, so, Q will like Apple.

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple		Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	Apple
1	V		V	

P lives below T and above S who doesn't like Mango. Here case 2 is ruled out as not satisfying the condition.

Floors	Case 1		Case-2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple	T	Orange
5	T	Grapes	P	Grapes
4	P	Mango		Mango
3	R		R	
2	S	Orange	Q	Apple
1	V		V	

Now, two fruits left for two persons so R will like Kiwi as V doesn't like Kiwi and the remaining fruit i.e., Banana will be liked by V. So, the final arrangement is: -

Floors	Persons	Fruits
7	U	Strawberry
6	Q	Apple
5	T	Grapes
4	P	Mango
3	R	Kiwi
2	S	Orange
1	V	Banana

**S24. Ans. (a)**

**Sol.** T likes Grapes.

Three persons live between the one who likes Orange and Q who lives on an even numbered floor. One person lives between Q and the one who likes Mango. R lives on 3<sup>rd</sup> floor. The one who likes Grapes live on 5<sup>th</sup> floor. There are two possible cases: -

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7				
6	Q			Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	
1				

One person lives between R and V who doesn't like Grapes. U likes Strawberry, then U will live on 7<sup>th</sup> floor in both the cases as there is no other vacant place left for U. R doesn't like Apple, V neither likes Kiwi nor likes Apple, so, Q will like Apple.

Floors	Case 1		Case 2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple		Orange
5		Grapes		Grapes
4		Mango		Mango
3	R		R	
2		Orange	Q	Apple
1	V		V	

P lives below T and above S who doesn't like Mango. Here case 2 is ruled out as not satisfying the condition.

Floors	Case 1		Case-2	
	Persons	Fruits	Persons	Fruits
7	U	Strawberry	U	Strawberry
6	Q	Apple	T	Orange
5	T	Grapes	P	Grapes
4	P	Mango		Mango
3	R		R	
2	S	Orange	Q	Apple
1	V		V	

Now, two fruits left for two persons so R will like Kiwi as V doesn't like Kiwi and the remaining fruit i.e., Banana will be liked by V. So, the final arrangement is: -

Floors	Persons	Fruits
7	U	Strawberry
6	Q	Apple
5	T	Grapes
4	P	Mango
3	R	Kiwi
2	S	Orange
1	V	Banana

S25. Ans. (b)

Sol.

Words	Codes
Education	dt
Is	ze
The	am
Foundation	dn
Way	yw
Of	og
Right	gr
Time	mt

S26. Ans. (c)

Sol.

Words	Codes
Education	dt
Is	ze
The	am
Foundation	dn
Way	yw
Of	og
Right	gr
Time	mt

S27. Ans. (d)

Sol.

Words	Codes
Education	dt
Is	ze
The	am
Foundation	dn
Way	yw
Of	og
Right	gr
Time	mt

S28. Ans. (e)

Sol.

Words	Codes
Education	dt
Is	ze
The	am
Foundation	dn
Way	yw
Of	og
Right	gr
Time	mt

S29. Ans. (c)

Sol.

Code for the word "digital" will be "gt".

Words	Codes
Education	dt
Is	ze
The	am
Foundation	dn
Way	yw
Of	og
Right	gr
Time	mt

S30. Ans. (d)

Sol. R was born on 29<sup>th</sup> October.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. There are two possible cases: -

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21		
	29		
September	12		
	21	V	
	29		V
October	12		
	21	B	B
	29		

S and A were born in odd numbered date of same month, so S and A was born on march as there is no other odd date of same month are vacant. One person born between V and

T. E born just after A. Here case 2 is eliminated as no place left for E just after A.

Months	Dates	Persons (Case 1)	Persons (Case-2)
March	12		
	21	S	S/A
	29	A	S/A
September	12	E	∓
	21	V	
	29		∨
October	12	T	
	21	B	B
	29		

R and W were born in same date. At least one person born after W. So, they were born in 29<sup>th</sup> as no other two same date of different month are vacant.

Months	Dates	Persons (Case 1)
March	12	
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

We know D is one of the persons, he was born on 12<sup>th</sup> march as it is the only vacant place. Hence, the final arrangement is: -

Months	Dates	Persons
March	12	D
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

**S31. Ans. (c)**

**Sol.** Three person born between A and the one who was born on 12<sup>th</sup> October.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. There are two possible cases: -

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21		
	29		
September	12		
	21	V	
	29		V
October	12		
	21	B	B
	29		

S and A were born in odd numbered date of same month, so S and A was born on march as there is no other odd date of same month are vacant. One person born between V and T. E born just after A. Here case 2 is eliminated as no place left for E just after A.

Months	Dates	Persons (Case 1)	Persons (Case-2)
March	12		
	21	S	S/A
	29	A	S/A
September	12	E	∓
	21	V	
	29		∨
October	12	T	
	21	B	B
	29		

R and W were born in same date. At least one person born after W. So, they were born in 29<sup>th</sup> as no other two same date of different month are vacant.

Months	Dates	Persons (Case 1)
March	12	
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R



We know D is one of the persons, he was born on 12<sup>th</sup> march as it is the only vacant place. Hence, the final arrangement is: -

Months	Dates	Persons
March	12	D
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

**S32. Ans. (c)**

**Sol.** Except option (c), all the pairs in the options were born in same month.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. There are two possible cases: -

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21		
	29		
September	12		
	21	V	
	29		V
October	12		
	21	B	B
	29		

S and A were born in odd numbered date of same month, so S and A was born on march as there is no other odd date of same month are vacant. One person born between V and T. E born just after A. Here case 2 is eliminated as no place left for E just after A.

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21	S	S/A
	29	A	S/A
September	12	E	∓
	21	V	
	29		∓
October	12	T	
	21	B	B
	29		

R and W were born in same date. At least one person born after W. So, they were born in 29<sup>th</sup> as no other two same date of different month are vacant.

Months	Dates	Persons (Case 1)
March	12	
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

We know D is one of the persons, he was born on 12<sup>th</sup> march as it is the only vacant place. Hence, the final arrangement is: -

Months	Dates	Persons
March	12	D
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

**S33. Ans. (c)**

**Sol.** D was born on 12<sup>th</sup> march.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. There are two possible cases: -

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21		
	29		
September	12		
	21	V	
	29		V
October	12		
	21	B	B
	29		

S and A were born in odd numbered date of same month, so S and A was born on march as there is no other odd date of same month are vacant. One person born between V and T. E born just after A. Here case 2 is eliminated as no place left for E just after A.

Months	Dates	Persons (Case 1)	Persons (Case-2)
March	12		
	21	S	S/A
	29	A	S/A
September	12	E	∓
	21	V	
	29		∨
October	12	T	
	21	B	B
	29		

R and W were born in same date. At least one person born after W. So, they were born in 29<sup>th</sup> as no other two same date of different month are vacant.

Months	Dates	Persons (Case 1)
March	12	
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

We know D is one of the persons, he was born on 12<sup>th</sup> march as it is the only vacant place. Hence, the final arrangement is: -

Months	Dates	Persons
March	12	D
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

**S34. Ans. (e)**

**Sol.** Five persons born after E.

V was born in odd number date in the month having least number of days. B was born on 21<sup>st</sup> October. There are two possible cases: -

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	12		
	21		
	29		
September	12		
	21	V	
	29		V
October	12		
	21	B	B
	29		

S and A were born in odd numbered date of same month, so S and A was born on march as there is no other odd date of same month are vacant. One person born between V and T. E born just after A. Here case 2 is eliminated as no place left for E just after A.

Months	Dates	Persons (Case 1)	Persons (Case-2)
March	12		
	21	S	S/A
	29	A	S/A
September	12	E	∓
	21	V	
	29		∨
October	12	T	
	21	B	B
	29		

R and W were born in same date. At least one person born after W. So, they were born in 29<sup>th</sup> as no other two same date of different month are vacant.

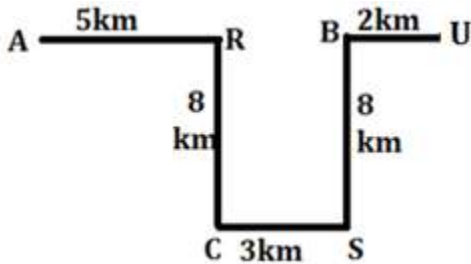
Months	Dates	Persons (Case 1)
March	12	
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

We know D is one of the persons, he was born on 12<sup>th</sup> march as it is the only vacant place. Hence, the final arrangement is: -

Months	Dates	Persons
March	12	D
	21	S
	29	A
September	12	E
	21	V
	29	W
October	12	T
	21	B
	29	R

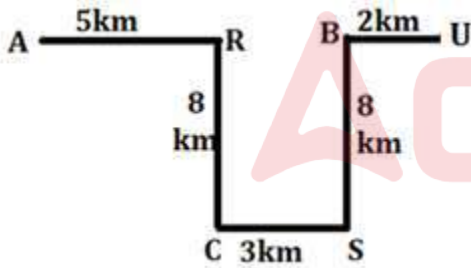
S35. Ans. (d)

Sol. Point S is in South-East direction of Point A.



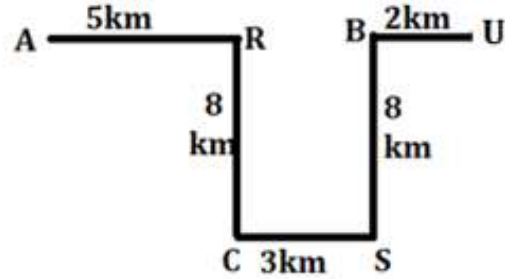
S36. Ans. (b)

Sol. 13km (3km + 8km + 2km).



S37. Ans. (e)

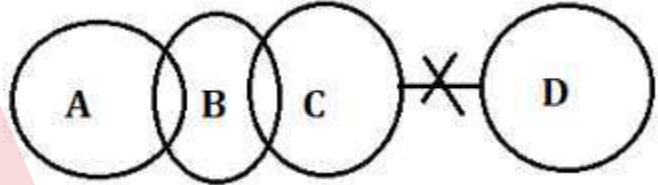
Sol. Shortest distance between point A and point C is  $\sqrt{89}$ km.



S38. Ans. (d)

Sol. I. Follows- Because only a few B are C so all B can never be C but all C can be B.

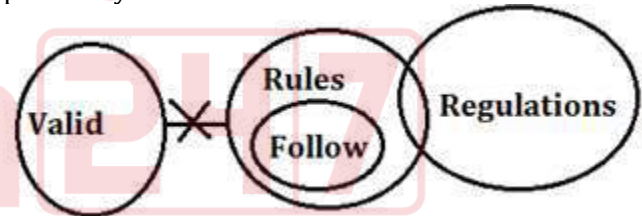
II. Follows- Because there is no direct relationship between A and D, so, the conclusion will be true in possibility.



S39. Ans. (e)

Sol. I. Not Follows- Because follow is only related to Rules, there will be no relation of Follow with anyone.

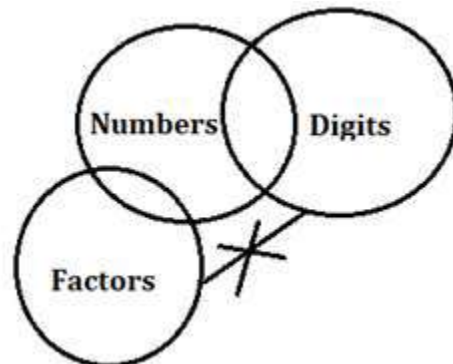
II. Not Follows- Because there is no definite relation between valid and Regulation, so, it can be true in possibility.



S40. Ans. (b)

Sol. I. Not Follows- Because some factors are number and no factors are digits, so all number can never be digits.

II. Follows- Because some factors are number so all factor can be Number is true.



**S41. Ans (b)****Sol.**

In Town A,

Total number of animals = 680

$$\text{Number of foxes} = 680 \times \frac{20}{100} = 136$$

Number of crocodiles = 680 - 136 = 544

Similarly,

Town	Total number of animals	Number of foxes	Number of crocodiles
P	680	136	544
Q	560	224	336
R	740	444	296
S	600	204	396
T	520	156	364

$$\text{Number of animals in F} = \frac{11}{8} \times 296 = 407$$

$$\text{Number of foxes in F} = 224 \times \frac{9}{16} = 126$$

$$\text{Number of crocodiles in F} = 407 - 126 = 281$$

**S42. Ans (a)****Sol.**

In Town A,

Total number of animals = 680

$$\text{Number of foxes} = 680 \times \frac{20}{100} = 136$$

Number of crocodiles = 680 - 136 = 544

Similarly,

Town	Total number of animals	Number of foxes	Number of crocodiles
P	680	136	544
Q	560	224	336
R	740	444	296
S	600	204	396
T	520	156	364

$$\text{Req. ratio} = 136 : 364 = 34 : 91$$

**S43. Ans (d)****Sol.**

In Town A,

Total number of animals = 680

$$\text{Number of foxes} = 680 \times \frac{20}{100} = 136$$

Number of crocodiles = 680 - 136 = 544

Similarly,

Town	Total number of animals	Number of foxes	Number of crocodiles
P	680	136	544
Q	560	224	336
R	740	444	296
S	600	204	396
T	520	156	364

$$\text{Number of elephants in S} = 224 \times \frac{125}{100} = 280$$

$$\text{Req. difference} = 544 - 280 = 264$$

**S44. Ans (e)****Sol.**

In Town A,

Total number of animals = 680

$$\text{Number of foxes} = 680 \times \frac{20}{100} = 136$$

Number of crocodiles = 680 - 136 = 544

Similarly,

Town	Total number of animals	Number of foxes	Number of crocodiles
P	680	136	544
Q	560	224	336
R	740	444	296
S	600	204	396
T	520	156	364

$$\text{Number of mugger crocodiles in P} = 544 \times \frac{5}{8} = 340$$

$$\text{Req. \%} = \frac{600-340}{600} \times 100 = 43\frac{1}{3}\%$$

**S45. Ans (d)****Sol.**

In Town A,

Total number of animals = 680

$$\text{Number of foxes} = 680 \times \frac{20}{100} = 136$$

Number of crocodiles = 680 - 136 = 544

Similarly,

Town	Total number of animals	Number of foxes	Number of crocodiles
P	680	136	544
Q	560	224	336
R	740	444	296
S	600	204	396
T	520	156	364

$$\text{Req. average} = \frac{224+204+444}{3} = 290\frac{2}{3}$$

**S46. Ans (a)****Sol.**

Pattern of series –

$$86 \times 0.5 + 1 = 44$$

$$44 \times 1 - 2 = 42$$

$$42 \times 1.5 + 4 = 67$$

$$67 \times 2 - 8 = 126$$

$$126 \times 2.5 + 16 = 331$$

**S47. Ans (d)**

**Sol.**

Pattern of series –

$$1045 - (1^3 - 1) = 1045$$

$$1045 + (2^3 - 2) = 1051$$

$$1051 - (3^3 - 3) = 1027$$

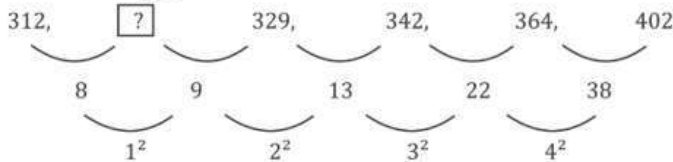
$$1027 + (4^3 - 4) = 1087$$

$$1087 - (5^3 - 5) = 967$$

**S48. Ans (b)**

**Sol.**

Pattern of series –  
= 320



**S49. Ans (d)**

**Sol.**

Pattern of series –

$$21 + (1 \times 3) = 24$$

$$24 + (2 \times 3) = 30$$

$$30 + (3 \times 3) = 39$$

$$39 + (4 \times 3) = 51$$

$$51 + (5 \times 3) = 66$$

**S50. Ans (a)**

**Sol.**

Pattern of series –

$$36 + 8 = 44$$

$$44 \div 4 = 11$$

$$11 + 8 = 19$$

$$19 \div 4 = 4.75$$

$$4.75 + 8 = 12.75$$

**S51. Ans (d)**

**Sol.**

Alloy K

Quantity of gold = 33 gram

$$\text{Quantity of silver} = \frac{33}{60} \times 40 = 22 \text{ gram}$$

Alloy J

Quantity of silver = 63 gram

$$\text{Quantity of gold} = \frac{63}{45} \times 55 = 77 \text{ gram}$$

Final quantity of gold = 33+77=110 gram

Final quantity of silver = 22+63=85 gram

Req. ratio = 85 : 110 = 17 : 22

**S52. Ans (e)**

**Sol.**

Let total work (L.C.M. of 24 & 18) = 72 units

$$\text{Efficiency of P \& Q} = \frac{72}{24} = 3 \text{ units/day}$$

$$\text{Efficiency of R \& Q} = \frac{72}{18} = 4 \text{ units/day}$$

Amount of work done by P and Q in 4 days = 4 × 3 = 12 units

Amount of work done by Q and R in 12 days = 4 × 12 = 48 units

Remaining work = 72 - 12 - 48 = 12 units

$$\text{Efficiency of R} = \frac{12}{6} = 2 \text{ units/day}$$

$$\text{Req. days} = \frac{72}{(4-2)} = 36 \text{ days}$$

**S53. Ans (d)**

**Sol.**

Length of smaller train Z = 260 meter

$$\text{Speed of smaller train} = 54 \times \frac{5}{18} = 15 \text{ m/sec}$$

Length of larger train Y = 340 meter

$$\text{Speed of larger train} = 72 \times \frac{5}{18} = 20 \text{ m/sec}$$

Extra length of larger train = 340 - 260 = 80m

$$\text{Req. time} = \frac{80}{20+15} = \frac{16}{7} \text{ sec}$$

**S54. Ans (e)**

**Sol.**

Let present age of Sia and Pia be  $7x + 5$ , &  $8x + 5$  respectively.

ATQ,

$$\frac{7x + 5}{8x + 5} = \frac{11}{12}$$

$$84x + 60 = 88x + 55$$

$$4x = 5$$

$$x = \frac{5}{4}$$

Age of Pia after 8 years =  $8 \times \frac{5}{4} + 5 + 8 = 23 \text{ years}$

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S55. Ans (d)

Sol.

ATQ.

$$\frac{16000 \times 4 \times R}{100} - \frac{20000 \times 2 \times R}{100} = 3600$$

$$640R - 400R = 3600$$

$$240R = 3600$$

$$R = 15$$

S56. Ans (b)

Sol.

ATQ.

$$15x - 10x = 75$$

$$5x = 75$$

$$x = 15$$

For U

$$\text{Number of huts} = 15 \times 8 = 120$$

$$\text{Number of farms} = 120 + 180 = 300$$

Village	Number of huts	Number of farms
U	120	300
V	270	475
W	225	340
X	105	190
Y	150	290

$$\text{Average number of farms in Y and W} = \frac{290+340}{2} = 315$$

$$\text{Average number of huts in U and V} = \frac{120+270}{2} = 195$$

$$\text{Req. difference} = 315 - 195 = 120$$

S57. Ans (a)

Sol.

ATQ.

$$15x - 10x = 75$$

$$5x = 75$$

$$x = 15$$

For U

$$\text{Number of huts} = 15 \times 8 = 120$$

$$\text{Number of farms} = 120 + 180 = 300$$

$$\text{Number of farms in Z} = 340 \times \frac{145}{100} = 493$$

$$\text{Number of huts in Z} = 105 \times \frac{8}{5} = 168$$

$$\text{Required sum} = 493 + 168 = 661$$

Village	Number of huts	Number of farms
U	120	300
V	270	475
W	225	340
X	105	190
Y	150	290

S58. Ans (d)

Sol.

ATQ.

$$15x - 10x = 75$$

$$5x = 75$$

$$x = 15$$

For U

$$\text{Number of huts} = 15 \times 8 = 120$$

$$\text{Number of farms} = 120 + 180 = 300$$

Village	Number of huts	Number of farms
U	120	300
V	270	475
W	225	340
X	105	190
Y	150	290

$$\text{Req. ratio} = 270 : 290 = 27 : 29$$

S59. Ans (e)

Sol.

ATQ.

$$15x - 10x = 75$$

$$5x = 75$$

$$x = 15$$

For U

$$\text{Number of huts} = 15 \times 8 = 120$$

$$\text{Number of farms} = 120 + 180 = 300$$

Village	Number of huts	Number of farms
U	120	300
V	270	475
W	225	340
X	105	190
Y	150	290

$$\text{Req. \%} = \frac{300-225}{225} \times 100 = 33\frac{1}{3}\%$$



**S60. Ans (d)****Sol.**

ATQ.

$$15x - 10x = 75$$

$$5x = 75$$

$$x = 15$$

For U

$$\text{Number of huts} = 15 \times 8 = 120$$

$$\text{Number of farms} = 120 + 180 = 300$$

Village	Number of huts	Number of farms
U	120	300
V	270	475
W	225	340
X	105	190
Y	150	290

$$\text{Number of fields in V} = 190 \times \frac{11}{190} = 110$$

$$\text{Req. difference} = 120 - 110 = 10$$

**S61. Ans.(e)****Sol.**

$$\text{I. } x^2 + x - 12 = 0$$

$$x^2 + 4x - 3x - 12 = 0$$

$$(x + 4)(x - 3) = 0$$

$$x = -4, 3$$

$$\text{II. } y^2 - 9y + 14 = 0$$

$$y^2 - 7y - 2y + 14 = 0$$

$$(y - 7)(y - 2) = 0$$

$$y = 2, 7$$

 $\Rightarrow$  no relation can be established between  $x$  &  $y$ .**S62. Ans.(c)****Sol.**

$$\text{I. } 6x^2 + 5x + 1 = 0$$

$$6x^2 + 3x + 2x + 1 = 0$$

$$(3x + 1)(2x + 1) = 0$$

$$x = \frac{-1}{3}, \frac{-1}{2}$$

$$\text{II. } 4y^2 - 15y = 4$$

$$4y^2 - 15y - 4 = 0$$

$$4y^2 - 16y + y - 4 = 0$$

$$(4y + 1)(y - 4) = 0$$

$$y = \frac{-1}{4}, 4$$

 $\Rightarrow x < y$ **S63. Ans.(e)****Sol.**

$$\text{I. } 3x^2 + x - 2 = 0$$

$$3x^2 + 3x - 2x - 2 = 0$$

$$(3x - 2)(x + 1) = 0$$

$$x = -1, \frac{2}{3}$$

$$\text{II. } 12y^2 + 7y + 1 = 0$$

$$12y^2 + 3y + 4y + 1 = 0$$

$$3y(4y + 1) + 1(4y + 1) = 0$$

$$(3y + 1)(4y + 1) = 0$$

$$y = \frac{-1}{3}, \frac{-1}{4}$$

 $\Rightarrow$  No relation can be established between  $x$  and  $y$ **S64. Ans.(d)****Sol.**

$$\text{I. } x^2 + 13x + 42 = 0$$

$$x^2 + 7x + 6x + 42 = 0$$

$$x(x + 7) + 6(x + 7) = 0$$

$$(x + 7)(x + 6) = 0$$

$$\Rightarrow x = -7, -6$$

$$\text{II. } y^2 + 8y + 12 = 0$$

$$y^2 + 6y + 2y + 12 = 0$$

$$y(y + 6) + 2(y + 6) = 0$$

$$(y + 6)(y + 2) = 0$$

$$\Rightarrow y = -6, -2$$

So,  $y \geq x$ .**S65. Ans.(e)****Sol.**

$$\text{I. } 1 = \frac{1}{x} \left( 2 - \frac{11}{36x} \right)$$

$$1 = \frac{2}{x} - \frac{11}{36x^2}$$

$$1 = \frac{72x - 11}{36x^2}$$

$$36x^2 = 72x - 11$$

$$36x^2 - 72x + 11 = 0$$

$$36x^2 - 66x - 6x + 11 = 0$$

$$6x(6x - 11) - 1(6x - 11) = 0$$

$$(6x - 11)(6x - 1) = 0$$

$$\Rightarrow x = \frac{11}{6}, \frac{1}{6}$$

$$\text{II. } \left( \frac{14y}{3} + \frac{9}{y} \right) = 13$$

$$\frac{14y^2 + 27}{3y} = 13$$

$$14y^2 + 27 = 39y$$

$$14y^2 - 39y + 27 = 0$$

$$14y^2 - 21y - 18y + 27 = 0$$

$$7y(2y - 3) - 9(2y - 3) = 0$$

$$(2y - 3)(7y - 9) = 0$$

$$\Rightarrow y = \frac{3}{2}, \frac{9}{7}$$

So, no relation can be established between  $x$  and  $y$ .

**S66. Ans.(a)****Sol.**

Comedy movies released in 2021 is 50.  
Let comedy movies released in 2020 and horror movies released in 2021 is  $3x$  and  $2x$  respectively.  
Horror movies released in 2020 =  $3x \times \frac{4}{3} = 4x$

ATQ,  

$$\frac{4x + 50}{2} = 105$$

$$4x + 50 = 210$$

$$4x = 160$$

$$x = 40$$

Year	Comedy	Horror
2020	120	160
2021	50	80

$$\text{Req. \%} = \frac{160-120}{160} \times 100 = 25\%$$

**S67. Ans.(b)****Sol.**

Comedy movies released in 2021 is 50.  
Let comedy movies released in 2020 and horror movies released in 2021 is  $3x$  and  $2x$  respectively.  
Horror movies released in 2020 =  $3x \times \frac{4}{3} = 4x$

ATQ,  

$$\frac{4x + 50}{2} = 105$$

$$4x + 50 = 210$$

$$4x = 160$$

$$x = 40$$

Year	Comedy	Horror
2020	120	160
2021	50	80

$$\text{Req. ratio} = 80 : 120 = 2 : 3$$

**S68. Ans.(d)****Sol.**

Comedy movies released in 2021 is 50.  
Let comedy movies released in 2020 and horror movies released in 2021 is  $3x$  and  $2x$  respectively.  
Horror movies released in 2020 =  $3x \times \frac{4}{3} = 4x$

ATQ,  

$$\frac{4x + 50}{2} = 105$$

$$4x + 50 = 210$$

$$4x = 160$$

$$x = 40$$

Year	Comedy	Horror
2020	120	160
2021	50	80

$$\text{Comedy movies released in 2022} = 160 \times \frac{132.5}{100} = 212$$

$$\text{Req. average} = \frac{212+120+50}{3} = 127\frac{1}{3}$$

**S69. Ans.(e)****Sol.**

Comedy movies released in 2021 is 50.  
Let comedy movies released in 2020 and horror movies released in 2021 is  $3x$  and  $2x$  respectively.  
Horror movies released in 2020 =  $3x \times \frac{4}{3} = 4x$

ATQ,  

$$\frac{4x + 50}{2} = 105$$

$$4x + 50 = 210$$

$$4x = 160$$

$$x = 40$$

Year	Comedy	Horror
2020	120	160
2021	50	80

$$\text{Horror movies released in 2019} = 50 \times \frac{80}{100} = 40$$

$$\text{Comedy movies released in 2019} = 120 \times \frac{5}{4} = 150$$

$$\text{Req. sum} = 150 + 40 = 190$$

**S70. Ans.(d)****Sol.**

Comedy movies released in 2021 is 50.  
Let comedy movies released in 2020 and horror movies released in 2021 is  $3x$  and  $2x$  respectively.  
Horror movies released in 2020 =  $3x \times \frac{4}{3} = 4x$

ATQ,  

$$\frac{4x + 50}{2} = 105$$

$$4x + 50 = 210$$

$$4x = 160$$

$$x = 40$$

Year	Comedy	Horror
2020	120	160
2021	50	80

$$\text{Total movies released in 2020} = 120 + 160 = 280$$

$$\text{Total movies released in 2021} = 50 + 80 = 130$$

$$\text{Req. difference} = 280 - 130 = 150$$

**S71. Ans.(b)****Sol.**

$$\begin{aligned} \text{Profit sharing ratio of P, Q \& R} \\ &= 1800 \times 6 : 2400 \times 9 : 2800 \times 12 \\ &= 9 : 18 : 28 \end{aligned}$$

$$\text{Required difference} = \frac{1440}{18} \times (28 - 9) = \text{Rs. } 1520$$

**S72. Ans.(a)****Sol.**

Let radius of cylinder =  $r$  cm

ATQ,  

$$\frac{22}{7} \times r \times r \times 10 = 1540$$

$$r = 7 \text{ cm}$$

$$\text{Length of rectangle} = 7 \times \frac{8}{7} = 8 \text{ cm}$$

$$\text{Perimeter of rectangle} = 2(8 + \text{Breadth}) = 26$$

$$\text{Breadth} = 5 \text{ cm}$$

$$\text{Area of rectangle} = 5 \times 8 = 40 \text{ cm}^2$$

**S73. Ans.(d)****Sol.**

Let cost price of jeans = Rs.  $100x$

Marked price of jeans = Rs.  $145x$

$$\text{Selling price of jeans} = 145x \times \frac{60}{100} = \text{Rs. } 87x$$

$$\text{Loss \%} = \frac{100x - 87x}{100x} \times 100 = 13\%$$

$$\text{Cost price of shirt} = \frac{435}{87} \times 100 = \text{Rs. } 500$$



**S74. Ans (b)****Sol.**

Boys	girls
48	40
	45
5	3
5:3	

$$\text{No. of girls in a class} = 72 \times \frac{3}{8} = 27$$

**S75. Ans.(c)****Sol.**

Let speed of boat 'g' and boat 'h' in still water be  $4x$  kmph and  $5x$  kmph respectively.

ATQ,

$$\frac{180}{5x + 15} = 4.5$$

$$40 = 5x + 15$$

$$x = 5$$

$$\text{Req time} = \frac{120}{4 \times 5 - 15} = 24 \text{ hours}$$

**S76. Ans.(d)****Sol.**

Let side of square, length and breadth of rectangle be  $a$ ,  $l$  and  $b$  cm respectively.

**Statement (I)**

$$\text{Side of square} = a^2 = 64$$

$$a = 8 \text{ cm}$$

**Statement (II)**

$$a = \frac{1}{2} \times l$$

$$\text{And, } \frac{l}{b} = \frac{4}{3}$$

**From statement I and II together**

$$\text{Length of rectangle} = 16 \text{ cm}$$

$$\text{Breadth of rectangle} = 16 \times \frac{3}{4} = 12 \text{ cm}$$

$$\text{Area of rectangle} = 16 \times 12 = 192 \text{ cm}^2$$

So, both the statements taken together are necessary to answer the questions.

**S77. Ans.(e)****Sol.**

**Statement (I)**

let cost price be Rs.  $100x$

marked price = Rs.  $140x$

$$\text{selling price} = 140x \times \frac{75}{100} = \text{Rs. } 105x$$

ATQ,

$$140x - 105x = 210$$

$$35x = 210$$

$$x = 6$$

Cost price = Rs.  $600$

**Statement (II)**

Ratio of cost price and discount price of an article is  $5:8$  respectively.

So, statement (I) alone is sufficient to answer the question

**S78. Ans.(d)****Sol.**

**Statement (I)**

let total work (L.C.M. of  $15, 18$  &  $20$ ) =  $180$  units

$$\text{Efficiency of A} = \frac{180}{15} = 12 \text{ units/day}$$

$$\text{Efficiency of B} = \frac{180}{18} = 10 \text{ units/day}$$

$$\text{Efficiency of C} = \frac{180}{20} = 9 \text{ units/day}$$

**Statement (II)**

$$\text{Efficiency of D} = 10 \times \frac{120}{100} = 12 \text{ units/day}$$

$$\text{Req. time} = \frac{180}{12} = 15 \text{ days}$$

So, both the statements taken together are necessary to answer the questions.

**S79. Ans.(d)****Sol.**

Let speed of boat in still water and speed of current be  $x$  and  $y$  respectively.

**Statement (I)**

Let speed of boat in still water and speed of current be  $8x$  and  $5x$  respectively.

**Statement (II)**

$$x - y = 30$$

From statement I and II together

ATQ,

$$\frac{180}{8x - 5x} = 6$$

$$x = 10$$

$$\text{Req. time} = \frac{195}{(8+5) \times 10} = 1.5 \text{ hours}$$

So, both the statements taken together are necessary to answer the questions

**S80. Ans.(c)****Sol.**

Let profit share of P, A and D be  $7x$ ,  $9x$  and  $5x$  respectively.

**Statement I.**

$$\text{Total profit} = 4500 \times \frac{21x}{5x} = \text{Rs. } 18900$$

$$\text{Profit \%} = \frac{18900}{94500} \times 100 = 20\%$$

**Statement II.**

$$7x - 5x = 1800$$

$$2x = 1800$$

$$x = 900$$

$$\text{Total profit} = 7x + 9x + 5x = 21x$$

$$= 21 \times 900 = \text{Rs. } 18900$$

$$\text{So profit \%} = \frac{18900}{94500} \times 100 = 20\%$$

So, either statement (I) or statement (II) by itself is sufficient to answer the question.

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## Free Practice Paper 3

**Directions (1-5):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

Eight persons sit around a circular table in such a way that all of them face towards the table. Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. N faces M who doesn't sit adjacent to R. L sits 3<sup>rd</sup> to the left of S.

आठ व्यक्ति एक वृत्ताकार मेज के चारों ओर इस प्रकार बैठे हैं कि उन सभी का मुख मेज की ओर है। P और R, जो K के ठीक दायें बैठा है, के बीच तीन व्यक्ति बैठे हैं। Q न तो R के आसन्न बैठा है और न ही P के आसन्न बैठा है। N का मुख M, जो R के आसन्न नहीं बैठा है, की ओर है। L, S के बायें से तीसरे स्थान पर बैठा है।

**Q1. Who among the following sits immediate left of L?**

निम्नलिखित में से कौन L के ठीक बायें बैठा है?

- (a) M
- (b) Q
- (c) K
- (d) P
- (e) N

**Q2. How many persons sit between Q and M when counted from right of M?**

M के दायें से गिनने पर Q और M के मध्य कितने व्यक्ति बैठे हैं?

- (a) Three / तीन
- (b) Two / दो
- (c) One / एक
- (d) Four / चार
- (e) More than four / चार से अधिक

**Q3. Who among the following faces K?**

निम्नलिखित में से किसका मुख K की ओर है?

- (a) Q
- (b) P
- (c) L
- (d) S
- (e) None of these / इनमें से कोई नहीं

**Q4. If all the persons are arranged according to alphabetical order in clockwise direction starting from K, then position of how many persons remain unchanged except K?**

यदि K से प्रारंभ करते हुए सभी व्यक्तियों को दक्षिणावर्त दिशा में वर्णानुक्रम के अनुसार व्यवस्थित किया जाता है, तो K को छोड़कर कितने व्यक्तियों की स्थिति अपरिवर्तित रहती है?

- (a) None / कोई नहीं
- (b) Two / दो
- (c) One / एक
- (d) Three / तीन
- (e) Four / चार

**Q5. What is the position of M with respect to Q?**

Q के सन्दर्भ में M का स्थान क्या है?

- (a) Immediate right / ठीक दाएं
- (b) 2<sup>nd</sup> to the right / दाएं से दूसरा
- (c) 2<sup>nd</sup> to the left / बाएं से दूसरा
- (d) 3<sup>rd</sup> to the left / बाएं से तीसरा
- (e) 3<sup>rd</sup> to the right / दाएं से तीसरा

**Directions (6-10):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

Eight persons R, Q, M, O, P, T, S and N live on eight different floors of a building (but not necessarily in the same order) such that bottommost floor is numbered as 1 and the floor just above it is numbered as 2 and so on till the topmost floor is numbered as 8.

Four persons live between M and R who lives on an even numbered floor. One person lives between M and N. T lives just below P and above Q. Number of persons live between S and P is same as live between S and O. T doesn't live on even numbered floor. At least two persons live above P.

आठ व्यक्ति R, Q, M, O, P, T, S और N एक इमारत की आठ अलग-अलग मंजिलों पर रहते हैं, (लेकिन जरूरी नहीं कि इसी क्रम में हों) जैसे कि सबसे नीचे वाली मंजिल की संख्या 1 और उसके ठीक ऊपर की मंजिल की संख्या 2 और इसी तरह सबसे ऊपरी मंजिल की संख्या 8 है।

M और R, जो एक सम संख्या वाली मंजिल पर रहता है, के मध्य चार व्यक्ति रहते हैं। M और N के बीच एक व्यक्ति रहता है। T, P के ठीक नीचे और Q के ऊपर रहता है। S और P के बीच रहने वाले व्यक्तियों की संख्या S और O के बीच रहने वाले व्यक्तियों की संख्या के समान है। T सम संख्या वाली मंजिल पर नहीं रहता है। P के ऊपर कम से कम दो व्यक्ति रहते हैं।

**Q6. Who among the following lives on 6<sup>th</sup> floor?**

निम्नलिखित में से कौन छठी मंजिल पर रहता है?

- (a) M
- (b) P
- (c) R
- (d) S
- (e) Q

**Q7. How many persons live between O and T?**

O और T के मध्य कितने व्यक्ति रहते हैं?

- (a) None / कोई नहीं
- (b) Two / दो
- (c) One / एक
- (d) Three / तीन
- (e) More than three / तीन से अधिक

**Q8. Who among the following lives on the topmost floor?**

निम्नलिखित में से कौन सबसे ऊपरी मंजिल पर रहता है?

- (a) O
- (b) R
- (c) M
- (d) N
- (e) S

**Q9. Who among the following lives exactly between Q and M?**

निम्नलिखित में से कौन Q और M के ठीक बीच में रहता है?

- (a) R
- (b) S
- (c) P
- (d) N
- (e) T

**Q10. Four of the following five are alike in a certain way and thus forms a group, who among the following doesn't belong to that group?**

निम्नलिखित पांच में से चार एक निश्चित रूप से समान हैं, और इस प्रकार एक समूह बनाते हैं, निम्नलिखित में से कौन उस समूह से संबंधित नहीं है?

- (a) O
- (b) R
- (c) P
- (d) S
- (e) Q

**Directions (11-15): Study the following series carefully and answer the questions given below.**

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

5 8 2 4 % 8 2 # 1 9 4 7 \* 4 2 & 2 8 @ 8 6 4 ! 3 4 9 0

**Q11. How many numbers are there which are immediately followed by a symbol and immediately preceded by an even number?**

ऐसी कितनी संख्याएँ हैं, जिनके ठीक बाद एक प्रतीक और ठीक पहले एक सम संख्या है?

- (a) One / एक
- (b) Two / दो
- (c) More than four / चार से अधिक
- (d) Three / तीन
- (e) Four / चार

Q12. Which of the following element is 10<sup>th</sup> to the right of 5<sup>th</sup> element from the left end of the series?

निम्नलिखित में से कौन सा तत्व श्रृंखला के बाएं छोर से 5<sup>वें</sup> तत्व के दायें से 10वां है?

- (a) 2
- (b) 4
- (c) \*
- (d) &
- (e) 7

Q13. What will be the sum of the number which is 8<sup>th</sup> from the left end and the number which is 6<sup>th</sup> from the right end of the series?

उन संख्याओं का योग क्या होगा जो बाएं छोर से आठवीं है और जो संख्या श्रृंखला के दाएं छोर से छठी है?

- (a) 16
- (b) 15
- (c) 17
- (d) 19
- (e) 20

Q14. How many even numbers are there which are immediately followed by an odd number?

ऐसी कितनी सम संख्याएँ हैं जिनके ठीक बाद एक विषम संख्या आती है?

- (a) One / एक
- (b) Four / चार
- (c) Three / तीन
- (d) Two / दो
- (e) Five / पांच



Q15. How many 4s are there in the above series?

उपरोक्त श्रृंखला में कितने 4 हैं?

- (a) Two / दो
- (b) Three / तीन
- (c) Four / चार
- (d) Five / पांच
- (e) Six / छह

**Directions (16-20):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

In a certain code language: - एक निश्चित कूट भाषा में

“Daily walk is good” is coded as “li og im ka”

“Good exercise daily” is coded as “sx og li”

“Daily long walk” is coded as “gl ka li”

“Daily walk is good” को “li og im ka” के रूप में कूटित किया गया है।

“Good exercise daily” को “sx og li” के रूप में कूटित किया गया है।

“Daily long walk” को “gl ka li” के रूप में कूटित किया गया है।

Q16. What is the code for the word “Good”?

‘Good’ शब्द के लिए कूट क्या है?

- (a) li
- (b) im
- (c) og
- (d) ka
- (e) Can’t be determined / निर्धारित नहीं किया जा सकता

Q17. What is the code for the word “Long”?

“Long” शब्द के लिए कूट क्या है?

- (a) li
- (b) gl
- (c) ka
- (d) Either gl or ka / या तो gl या ka
- (e) Either li or gl / या तो li या gl

**Q18. Which of the following word is coded as "im"?**

निम्नलिखित में से किस शब्द को "im" के रूप में कूटित किया गया है?

- (a) Good
- (b) Exercise
- (c) Daily
- (d) Long
- (e) Is

**Q19. What is the code for the word "Daily Long"?**

"Daily Long" शब्द के लिए कूट क्या है?

- (a) sx gl
- (b) im ka
- (c) gl og
- (d) li ka
- (e) li gl

**Q20. If "Girl is Good" is coded as " im og lg", then what is the code for "Girl"?**

यदि "Girl is Good" को "im og lg" के रूप में कूटित किया जाता है, तो "Girl" के लिए कूट क्या होगा?

- (a) lg
- (b) og
- (c) im
- (d) li
- (e) Can't be determined / निर्धारित नहीं किया जा सकता

**Q21. If we form a five-letter meaningful word with 3<sup>rd</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> letter from the left end of the word "RELATIONSHIP", then what would be the third letter of that meaningful word? If no meaningful word is formed, then mark the answer as X. If more than one meaningful word is formed then, mark the answer as Z.**

यदि हम शब्द "RELATIONSHIP" के बायें छोर से तीसरे, छठे, आठवें, नौवें और बारहवें अक्षर से पांच अक्षरों का एक अर्थपूर्ण शब्द बनाते हैं, तो उस अर्थपूर्ण शब्द का तीसरा अक्षर क्या होगा? यदि कोई सार्थक शब्द नहीं बनता है, तो उत्तर को X के रूप में चिह्नित कीजिए। यदि एक से अधिक सार्थक शब्द बनते हैं, तो उत्तर को Z के रूप में चिह्नित कीजिए।

- (a) P
- (b) L
- (c) N
- (d) X
- (e) Z

**Directions (22-26): Study the following information carefully and answer the questions given below.**

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

Seven Persons A, B, C, D, E, F and G go to the market in seven different day of week starting from Sunday to Saturday but not necessarily in the same order. C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. One person goes between E and F. Number of persons goes after F is same as number of persons goes before D.

सात व्यक्ति A, B, C, D, E, F और G रविवार से शनिवार तक सप्ताह के सात अलग-अलग दिनों में बाजार जाते हैं, लेकिन जरूरी नहीं कि इसी क्रम में हों। C बुधवार के बाद किसी एक दिन बाजार जाता है। दो व्यक्ति C और G, जो B के ठीक बाद जाता है, के बीच जाते हैं। एक व्यक्ति E और F के बीच जाता है। F के बाद जाने वाले व्यक्तियों की संख्या उतनी ही है जितनी कि D से पहले जाने वाले व्यक्तियों की संख्या है।

**Q22. Who among the following goes to market on Monday?**

निम्नलिखित में से कौन सोमवार को बाजार जाता है?

- (a) B
- (b) A
- (c) G
- (d) E
- (e) F

**Q23. How many persons go between D and C?**

D और C के मध्य कितने व्यक्ति जाते हैं?

- (a) None / कोई नहीं
- (b) One / एक
- (c) Two / दो
- (d) Three / तीन
- (e) Four / चार

**Q24. Which of the following combination is true?**

निम्नलिखित में से कौन सा संयोजन सत्य है?

- (a) F- Thursday / F- गुरुवार
- (b) D- Monday / D- सोमवार
- (c) A- Wednesday / A- बुधवार
- (d) C- Saturday / C- शनिवार
- (e) E- Tuesday / E- मंगलवार



**Q25. G goes market on which of the following day?**

**G निम्नलिखित में से किस दिन बाजार जाता है?**

- (a) Thursday / गुरुवार
- (b) Wednesday / बुधवार
- (c) Monday / सोमवार
- (d) Friday / शुक्रवार
- (e) Tuesday / मंगलवार

**Q26. If all the persons are arranged in alphabetical order from Sunday to Saturday, then the position of how many persons will remain unchanged?**

**यदि रविवार से शनिवार तक सभी व्यक्तियों को वर्णानुक्रम में व्यवस्थित किया जाता है, तो कितने व्यक्तियों की स्थिति अपरिवर्तित रहेगी?**

- (a) One / एक
- (b) Two / दो
- (c) Four / चार
- (d) None / कोई नहीं
- (e) Three / तीन

**Directions (27-28): In each of the questions some statements are given below followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

**प्रत्येक प्रश्न में कुछ कथन नीचे दिए गए हैं, और उसके बाद दो निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों को पढ़िए और फिर तय कीजिए कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की परवाह किए बिना दिए गए कथनों का तार्किक रूप से अनुसरण करता है।**

**Q27. Statements / कथन:**

Only K is U. Some K are P. No P is R.  
केवल K, U है। कुछ K, P हैं। कोई P, R नहीं है।

**Conclusions / निष्कर्ष:**

**I. No R is U.**

कोई R, U नहीं है।

**II. Some K is not R.**

कुछ K, R नहीं है।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follows.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q28. Statements / कथन:**

Only a few Teeth are Pick. Some Pick are Drop. All Drop are Water.

केवल कुछ टीथ, पिक हैं। कुछ पिक, ड्रॉप हैं। सभी ड्रॉप, वाटर हैं।

**Conclusions / निष्कर्ष:**

**I. Some Pick are Water.**

कुछ पिक, वाटर हैं।

**II. All teeth can be Pick.**

सभी टीथ, पिक हो सकते हैं।

(a) If only conclusion I follows.

यदि केवल निष्कर्ष I अनुसरण करता है।

(b) If only conclusion II follows.

यदि केवल निष्कर्ष II अनुसरण करता है।

(c) If either conclusion I or II follows.

यदि या तो निष्कर्ष I या II अनुसरण करता है।

(d) If neither conclusion I nor II follows.

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।

(e) If both conclusions I and II follows.

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।

**Q29.** How many pairs of letters are there in the word 'EXPECTED', each of which have as many letters between them in the word as they have in English alphabetical series (both forward and backward direction)?

शब्द 'EXPECTED' में अक्षरों के ऐसे कितने युग्म हैं, जिनमें से प्रत्येक के बीच उतने ही अक्षर हैं जितने कि अंग्रेजी वर्णमाला श्रृंखला में (आगे और पीछे दोनों दिशाओं में) हैं?

- (a) One / एक
- (b) Three / तीन
- (c) None / कोई नहीं
- (d) Two / दो
- (e) Four / चार

**Directions (30-31):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

There are six members in a family of three generation with two married couple. S is son-in-law of Z who is father of P. R is mother of C who is granddaughter of Y. P is unmarried member of the family. Number of females are more than male members.

तीन पीढ़ियों के एक परिवार में दो विवाहित जोड़े के साथ छह सदस्य हैं। S, Z, जो P का पिता है, का दामाद है। R, C, जो Y की पोती है, की माता है। P परिवार का अविवाहित सदस्य है। पुरुषों की तुलना में महिलाओं की संख्या अधिक है।



**Q30. How is P related to C?**

P, C से किस प्रकार संबंधित है?

- (a) Sister / बहन
- (b) Brother / भाई
- (c) Uncle / अंकल
- (d) Aunt / चाची/मौसी/मामी
- (e) Father / पिता

**Q31. How is Y related to S?**

Y, S से किस प्रकार संबंधित है?

- (a) Mother-in-law / सास
- (b) Mother / मां
- (c) Sister / बहन
- (d) Aunt / चाची/मौसी/मामी
- (e) Sister-in-law / सिस्टर इन लॉ

**Q32.** If in the number "5389264863", all the digits are arranged in descending order from left to right, then what will be the sum of the numbers which are 5<sup>th</sup> from the left end and 4<sup>th</sup> from the right end of the number thus formed after rearrangement?

यदि संख्या "5389264863" में, सभी अंकों को बाएं से दाएं अवरोही क्रम में व्यवस्थित किया जाता है, तो इस प्रकार पुनर्व्यवस्था के बाद बनाई गई संख्या में उन संख्याओं का योग क्या होगा जो बाएं छोर से पांचवी है, और जो दाएं छोर से चौथी हैं ?

- (a) 10
- (b) 12
- (c) 9
- (d) 8
- (e) 11

**Directions (33-37):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

Six persons sit around an equilateral triangular table in such a way that three of them sit at the corner of the table and three of them sit at the middle of the side of the table and all of them face towards the table. Each of them likes six different colors i.e., Pink, Red, Blue, Black, Green and Yellow but not necessarily in the same order.

R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow. The one who likes blue sits 2<sup>nd</sup> to the right of S. The one who likes Green doesn't sit at the corner of the table. T is one of the persons.

छह व्यक्ति एक समबाहु त्रिभुजाकार मेज के चारों ओर इस प्रकार बैठे हैं कि उनमें से तीन मेज के कोने पर बैठे हैं, और उनमें से तीन मेज की भुजा के मध्य में बैठे हैं, और उन सभी का मुख मेज की ओर है। उनमें से प्रत्येक को छह अलग-अलग रंग पसंद हैं अर्थात् गुलाबी, लाल, नीला, काला, हरा और पीला लेकिन आवश्यक नहीं इसी क्रम में हो।

R, P, जिसे लाल रंग पसंद है, के बाएं से दूसरे स्थान पर बैठा है। वह व्यक्ति जिसे गुलाबी रंग पसंद है उसका मुख R की ओर है। Q न तो P के आसन्न बैठा है और न ही R के आसन्न बैठा है। काला रंग पसंद करने वाले का मुख पीला रंग पसंद करने वाले व्यक्ति की ओर है। U, पीला रंग पसंद करने वाले के ठीक दायें बैठा है। वह व्यक्ति जिसे नीला रंग पसंद है वह S के दायें से दूसरे स्थान पर बैठा है। हरा रंग पसंद करने वाला व्यक्ति मेज के कोने पर नहीं बैठा है। T व्यक्तियों में से एक है।

**Q33. Who among the following faces P?**

निम्नलिखित में से कौन P के सम्मुख है?

- (a) Q
- (b) The one who likes Yellow / वह व्यक्ति जिसे पीला रंग पसंद है।
- (c) The one who likes Blue / वह व्यक्ति जिसे नीला रंग पसंद है।
- (d) S
- (e) T

**Q34. T likes which of the following color?**

T को निम्नलिखित में से कौन सा रंग पसंद है?

- (a) Black / काला
- (b) Yellow / पीला
- (c) Pink / गुलाबी
- (d) Green / हरा
- (e) Blue / नीला

**Q35. What is the position of T with respect to S?**

S के सन्दर्भ में T का स्थान क्या है?

- (a) Immediate right / ठीक दाएं
- (b) Immediate left / ठीक बाएं
- (c) 3<sup>rd</sup> to the left / बाएं से तीसरा
- (d) 2<sup>nd</sup> to the right / दाएं से दूसरा
- (e) 2<sup>nd</sup> to the left / बाएं से दूसरा

**Q36. Which of the following color is liked by U?**

निम्नलिखित में से कौन सा रंग U को पसंद है?

- (a) Pink / गुलाबी
- (b) Green / हरा
- (c) Blue / नीला
- (d) None of these / इनमे से कोई नहीं
- (e) Black / काला

**Q37. How many persons sit between S and R when counted from right of S?**

S के दायें से गिनने पर S और R के मध्य कितने व्यक्ति बैठे हैं?

- (a) None / कोई नहीं
- (b) One / एक
- (c) Two / दो
- (d) Three / तीन
- (e) Four / चार

**Directions (38-40):** Study the following information carefully and answer the questions given below.

निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

A person starts walking towards east direction from a Point G. After walking 8m he reaches at Point M he takes a left turn and walks 10m to reach at Point S. From Point S, he takes a right turn and walks 12m and reaches at Point Q. From there, he takes two consecutive right turns of 10m and 6m to reach at Point C and Point K respectively. Finally, he reaches at Point A after walking 4m left from Point K.



एक व्यक्ति बिंदु G से पूर्व दिशा की ओर चलना शुरू करता है। 8 मीटर चलने के बाद वह बिंदु M पर पहुंचता है, वहां से वह बाएं मुड़ता है और बिंदु S पर पहुंचने के लिए 10 मीटर चलता है। बिंदु S से, वह दाएं मुड़ता है, और 12 मीटर चलता है और बिंदु Q पर पहुंचता है। वहाँ से वह क्रमशः बिंदु C और बिंदु K पर पहुँचने के लिए 10 मीटर और 6 मीटर के लिए दो बार क्रमागत दायें मुड़ता है। अंत में, वह बिंदु K से 4 मीटर बायीं ओर चलने के बाद बिंदु A पर पहुंचता है।

**Q38. What is the direction of Point A with respect to Point G?**

बिंदु G के सन्दर्भ में बिंदु A की दिशा क्या है?

- (a) South / दक्षिण
- (b) South-East / दक्षिण-पूर्व
- (c) South-West / दक्षिण-पश्चिम
- (d) North / उत्तर
- (e) East / पूर्व

**Q39. What is the total distance covered by him from Point Q to Point A?**

बिंदु Q से बिंदु A तक उसके द्वारा तय की गई कुल दूरी कितनी है?

- (a) 12m / 12 मीटर
- (b) 14m / 14 मीटर
- (c) 10m / 10 मीटर
- (d) 16m / 16 मीटर
- (e) 20m / 20 मीटर

**Q40. If Point S is related to Point G in the same way Point Q is related to Point K, then which of the following is related to Point A?**

यदि बिंदु S, बिंदु G से उसी प्रकार संबंधित है, जिस प्रकार बिंदु Q, बिंदु K से संबंधित है, तो निम्न में से कौन बिंदु A से संबंधित है?

- (a) Point C / बिंदु C
- (b) Point M / बिंदु M
- (c) Point G / बिंदु G
- (d) Point K / बिंदु K
- (e) Point S / बिंदु S

**Directions (41-46): What will come in the place of question (?) mark in following number series:**

निम्नलिखित संख्या श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

**Q41. 32, 16, 16, 32, ?, 1024**

- (a) 136
- (b) 128
- (c) 132
- (d) 148
- (e) 112

**Q42. 144, 288, 864, ?, 17280, 103680**

- (a) 3456
- (b) 3446
- (c) 3448
- (d) 3436
- (e) 3416

**Q43. 120, 125, 115, 130, ?, 135**

- (a) 105
- (b) 130
- (c) 120
- (d) 110
- (e) 90

**Q44. 223, 227, 236, 252, 277, ?**

- (a) 309
- (b) 311
- (c) 313
- (d) 315
- (e) 317

**Q45. 60, 71, 93, 126, ?, 225**

- (a) 200
- (b) 185
- (c) 190
- (d) 180
- (e) 170

**Q46. 9, 17, ?, 108, 233, 449**

- (a) 48
- (b) 44
- (c) 42
- (d) 36
- (e) 54

**Directions (47-58):** What will come in the place of question (?) mark in the following question:

निम्नलिखित संख्या श्रृंखला में प्रश्न चिह्न (?) के स्थान पर क्या आएगा?

**Q47.**  $108 \times 2.5 = ? + 5^3$

- (a) 165
- (b) 125
- (c) 115
- (d) 135
- (e) 145

**Q48.**  $23\frac{2}{5}$  of 50% of 200 = ?

- (a) 1170
- (b) 2380
- (c) 2340
- (d) 2360
- (e) 2320

**Q49.**  $\sqrt{24.01} + \sqrt{12.96} = ?$

- (a) 11.5
- (b) 6.5
- (c) 7.5
- (d) 8.5
- (e) 9.5

**Q50.**  $2\frac{4}{7} \times 1\frac{3}{18} = ? - 1$

- (a) 3
- (b) 4
- (c) 2
- (d) 1
- (e) 5

**Q51.** 25% of ?% of 80 = 560

- (a) 2800
- (b) 2400
- (c) 2960
- (d) 3000
- (e) 3600

**Q52.**  $37\frac{1}{2}\%$  of 240 +  $14\frac{2}{7}\%$  1400 = ?

- (a) 290
- (b) 310
- (c) 320
- (d) 300
- (e) 280

**Q53.** 55% of 600 - 40% of 200 = ?<sup>2</sup> × 10

- (a) 8
- (b) 5
- (c) 9
- (d) 4
- (e) 3

**Q54.**  $\sqrt[3]{1331} + \sqrt{961} - 5^2 + ? = 420 \div 4$

- (a) 86
- (b) 84
- (c) 88
- (d) 98
- (e) 78

**Q55.** 80% of  $\frac{2}{5}$  of 300 = ?<sup>2</sup> - 4

- (a) 6
- (b) 14
- (c) 8
- (d) 12
- (e) 10

**Q56.** 125% of  $\frac{4}{7}$ th of of 2800 = ?

- (a) 4000
- (b) 2400
- (c) 1600
- (d) 2000
- (e) 3000

**Q57.**  $1136 \div 142 - \frac{11}{5} + 2.2 = ?$

- (a) 4
- (b) 5.8
- (c) 6
- (d) 8
- (e) 10.2

Q58.  $4440 \div 80 + 180 \div 36 = ?$

- (a) 72.5
- (b) 60.5
- (c) 70.5
- (d) 58.5
- (e) 64.5

**Directions (59-63):** Table given below shows number of employees recruited in three different company in four different years. Read the following table carefully and answer the questions given below.

नीचे दी गई तालिका चार अलग-अलग वर्षों में तीन अलग-अलग कंपनियों में भर्ती किए गए कर्मचारियों की संख्या दर्शाती है। निम्नलिखित तालिका का ध्यानपूर्वक अध्ययन कीजिए और नीचे दिए गए प्रश्नों के उत्तर दीजिए।

Years/वर्ष	Company/कंपनी A	Company/कंपनी B	Company/कंपनी C
2017	500	400	500
2018	200	700	700
2019	850	500	400
2020	140	120	550

Q59. Find the ratio of number of employees recruited in company B in 2019 to number of employees recruited in company C in 2017?

2019 में कंपनी B में भर्ती कर्मचारियों की संख्या का 2017 में कंपनी C में भर्ती कर्मचारियों की संख्या से अनुपात ज्ञात कीजिए?

- (a) 1:2
- (b) 1:3
- (c) 5:7
- (d) 1:1
- (e) 5 : 6

Q60. Total number of employees recruited in company B in 2018 is what percentage of number of employees recruited in company A in 2020?

2018 में कंपनी B में भर्ती किए गए कर्मचारियों की कुल संख्या, 2020 में कंपनी A में भर्ती किए गए कर्मचारियों की संख्या का कितना प्रतिशत है?

- (a) 500%
- (b) 250%
- (c) 600%
- (d) 400%
- (e) None of these / इनमे से कोई नहीं

Q61. Find total number of employees recruited in company A in given four years?

दिए गए चार वर्षों में कंपनी A में भर्ती किए गए कर्मचारियों की कुल संख्या ज्ञात कीजिए?

- (a) 1580
- (b) 1240
- (c) 1640
- (d) 1690
- (e) 1680

Q62. Find the average number of employees recruited in company A, B and C in 2017?

2017 में कंपनियों A, B और C में भर्ती किए गए कर्मचारियों की औसत संख्या ज्ञात कीजिए?

- (a)  $468 \frac{2}{3}$
- (b)  $466 \frac{1}{3}$
- (c)  $466 \frac{2}{3}$
- (d)  $476 \frac{2}{3}$
- (e)  $464 \frac{2}{3}$

Q63. What is the difference between number of employees recruited in company C in 2017 & 2018 together and number of employees recruited in company B in 2019 & 2020 together?

2017 और 2018 में एक साथ कंपनी C में भर्ती हुए कर्मचारियों की संख्या और 2019 और 2020 में एक साथ कंपनी B में भर्ती किए गए कर्मचारियों की संख्या के बीच का अंतर कितना है?

- (a) 580
- (b) 680
- (c) 520
- (d) 560
- (e) 540

Q64. Train A having length 150 meter crosses a pole in 30 seconds. If the length of train B is  $33\frac{1}{3}\%$  more than train A and it crosses the same pole in 50 second, then find the ratio of speed of train A to that of train B?

150 मीटर लंबी ट्रेन A एक खम्भे को 30 सेकंड में पार करती है। यदि ट्रेन B की लंबाई ट्रेन A से  $33\frac{1}{3}\%$  अधिक है, और वह उसी पोल को 50 सेकंड में पार करती है, तो ट्रेन A की गति का ट्रेन B की गति से अनुपात ज्ञात कीजिये?

- (a) 5:4
- (b) 5:6
- (c) 6:5
- (d) 4:5
- (e) 1:3

Q65. A man took a loan of Rs.20000 from a bank at the rate of X% p.a. on simple interest. If after three years he had to pay Rs.7200 as interest, then find the value of X?

एक व्यक्ति ने साधारण ब्याज पर X% प्रतिवर्ष की दर से एक बैंक से 20000 रुपये का ऋण लिया। यदि तीन वर्ष बाद उसे ब्याज के रूप में 7200 रुपये चुकाने पड़े, तो X का मान ज्ञात कीजिए?

- (a) 8%
- (b) 10%
- (c) 20%
- (d) 15%
- (e) 12%

Q66. P buys an old bike for Rs.7200 and spends Rs.1200 on its repairing. If P sells the bike at Rs.12000, then find the (approx.) profit % he earned?

P एक पुरानी बाइक को 7200 रुपये में खरीदता है, और इसकी मरम्मत पर 1200 रुपये खर्च करता है। यदि P बाइक को 12000 रुपये में बेचता है, तो उसके द्वारा अर्जित लाभ% (लगभग) ज्ञात कीजिए?

- (a) 40%
- (b) 28%
- (c) 36%
- (d) 43%
- (e) 48%

Q67. Pipe A, pipe B and pipe C alone can fill a tank in 2 hours, 4 hours and 5 hours respectively. If all the pipes are open together in the tank, then in how much time all three pipes will take to fill the tank?

पाइप A, पाइप B और पाइप C अकेले एक टैंक को क्रमशः 2 घंटे, 4 घंटे और 5 घंटे में भर सकते हैं। यदि टैंक में सभी पाइप एक साथ खुले हैं, तो तीनों पाइप टैंक को भरने में कितना समय लेंगे?

- (a) 19 hours / 19 घंटे
- (b)  $2\frac{1}{19}$  hours /  $2\frac{1}{19}$  घंटे
- (c) 40/19 hours / 40/19 घंटे
- (d) 20/19 hours / 20/19 घंटे
- (e) 1 hours / 1 घंटा

Q68. The present age of A and B is the in ratio of 5:6 respectively. Ten years hence, the ratio of ages of A to B will be 7:8. Find the present age of A?

A और B की वर्तमान आयु क्रमशः 5 : 6 के अनुपात में है। दस वर्ष बाद, A का B की आयु से अनुपात 7 : 8 होगा। A की वर्तमान आयु ज्ञात कीजिए?

- (a) 45 years / 45 वर्ष
- (b) 15 years / 15 वर्ष
- (c) 25 years / 25 वर्ष
- (d) 35 years / 35 वर्ष
- (e) 30 years / 30 वर्ष



**Q69.** Vessel A contains 150 liters mixture of milk and water in the ratio 7:8 respectively, while vessel B contains 50 liters of mixture of water and milk in the ratio 3:7 respectively. If vessel A and B mixed in an empty vessel C, then find the quantity of water in vessel C?

बर्तन A में 150 लीटर दूध और पानी का मिश्रण क्रमशः 7 : 8 के अनुपात में है, जबकि बर्तन B के 50 लीटर मिश्रण में पानी और दूध का मिश्रण क्रमशः 3 : 7 के अनुपात में है। यदि बर्तन A और B को एक खाली बर्तन C में मिलाया जाता है, तो बर्तन C में पानी की मात्रा ज्ञात कीजिये?

- (a) 95 liters / 95 लीटर  
 (b) 85 liters / 85 लीटर  
 (c) 105 liters / 105 लीटर  
 (d) 75 liters / 75 लीटर  
 (e) 115 liters / 115 लीटर

**Q70.** Circumference of a circle is 44 cm and breadth of a rectangle 100/7 % more than radius of the circle. If Perimeter of rectangle is 96 cm, then find the area of rectangle?

एक वृत्त की परिधि 44 सेमी है, और एक आयत की चौड़ाई वृत्त की त्रिज्या से 100/7 % अधिक है। यदि आयत का परिमाप 96 सेमी है, तो आयत का क्षेत्रफल ज्ञात कीजिए?

- (a) 320 cm<sup>2</sup> / 320 सेमी<sup>2</sup>  
 (b) 270 cm<sup>2</sup> / 270 सेमी<sup>2</sup>  
 (c) 300 cm<sup>2</sup> / 300 सेमी<sup>2</sup>  
 (d) 360 cm<sup>2</sup> / 360 सेमी<sup>2</sup>  
 (e) 480 cm<sup>2</sup> / 480 सेमी<sup>2</sup>

**Directions (71-75):** Each question consists of two equations I & II. You have to solve each equation and mark answer as per instructions. प्रत्येक प्रश्न में दो समीकरण, I और II हैं। आपको प्रत्येक समीकरण को हल करना है, और निर्देशों के अनुसार उत्तर को चिह्नित करना है।

**Q71.**

I.  $x^2 + 5x + 6 = 0$

II.  $y^2 + 7y + 12 = 0$

- (a)  $x > y$   
 (b)  $x \leq y$   
 (c)  $x = y$  or no relation can be established / या कोई संबंध स्थापित नहीं किया जा सकता है,  
 (d)  $x < y$   
 (e)  $x \geq y$

**Q72.**

I.  $2x^2 + 5x - 3 = 0$

II.  $3y^2 - 2y - 1 = 0$

- (a)  $x > y$   
 (b)  $x \leq y$   
 (c)  $x = y$  or no relation can be established / या कोई संबंध स्थापित नहीं किया जा सकता है,  
 (d)  $x < y$   
 (e)  $x \geq y$

**Q73.**

I.  $2x + 3y = 7$

II.  $4x - 3y = 5$

- (a)  $x > y$   
 (b)  $x \leq y$   
 (c)  $x = y$  or no relation can be established / या कोई संबंध स्थापित नहीं किया जा सकता है,  
 (d)  $x < y$   
 (e)  $x \geq y$

**Q74.**

I.  $x^2 - 13x + 42 = 0$

II.  $y^2 - 17y + 72 = 0$

- (a)  $x > y$   
 (b)  $x \leq y$   
 (c)  $x = y$  or no relation can be established / या कोई संबंध स्थापित नहीं किया जा सकता है,  
 (d)  $x < y$   
 (e)  $x \geq y$

**Q75.**

I.  $x^2 + 6x + 8 = 0$

II.  $y^2 + 10y + 24 = 0$

- (a)  $x > y$   
 (b)  $x \leq y$   
 (c)  $x = y$  or no relation can be established / या कोई संबंध स्थापित नहीं किया जा सकता है,  
 (d)  $x < y$   
 (e)  $x \geq y$



**Q76. P and Q started a business. P invest Rs.5000 for whole year and Q invested Rs.8000 for some time. If at the end of the year profit share of P is Rs.10000 out of total profit of Rs. 22000, then find for how many months Q invested?**

P और Q ने एक व्यवसाय शुरू किया। P ने पूरे वर्ष के लिए 5000 रुपये का निवेश किया और Q ने कुछ समय के लिए 8000 रुपये का निवेश किया। यदि वर्ष के अंत में 22000 रुपये के कुल लाभ में से P का लाभ हिस्सा 10000 रुपये है, तो ज्ञात कीजिए कि Q ने कितने महीनों के लिए निवेश किया?

- (a) 12
- (b) 6
- (c) 9
- (d) 7
- (e) 8

**Q77. A alone can finish a work in 90 days and B is 20% less efficient than A. Find in how many days A and B working together can finish the same work?**

A अकेला एक कार्य को 90 दिनों में पूरा कर सकता है, और B, A से 20% कम कुशल है। ज्ञात कीजिए कि A और B एक साथ काम करके उसी कार्य को कितने दिनों में पूरा कर सकते हैं?

- (a) 10
- (b) 40
- (c) 62
- (d) 72
- (e) 50

**Q78. The ratio of speed of boat in still water to speed of stream is 7:4. If boat travelled 156 km in upstream in 26 hours, then find the difference between speed of boat in still water and speed of stream?**

शांत जल में नाव की गति का धारा की गति से अनुपात 7 : 4 है। यदि नाव 26 घंटे में धारा के प्रतिकूल 156 किमी की यात्रा करती है, तो शांत जल में नाव की गति और धारा की गति के बीच का अंतर ज्ञात कीजिये?

- (a) 3 km/h / 3 किमी/घंटा
- (b) 2 km/h / 2 किमी/घंटा
- (c) 4 km/h / 4 किमी/घंटा
- (d) 6 km/h / 6 किमी/घंटा
- (e) 8 km/h / 8 किमी/घंटा

**Q79. There are ten students in a tuition and the average age of all the students is 25 years. When the age of teacher is included, then the average age increased by 2 years. Find the age of teacher?**

एक ट्यूशन में दस छात्र हैं, और सभी छात्रों की औसत आयु 25 वर्ष है। जब शिक्षक की आयु को शामिल किया जाता है, तो औसत आयु में 2 वर्ष की वृद्धि होती है। शिक्षक की आयु ज्ञात कीजिए?

- (a) 47 years / 47 वर्ष
- (b) 45 years / 45 वर्ष
- (c) 37 years / 37 वर्ष
- (d) 42 years / 42 वर्ष
- (e) 44 years / 44 वर्ष

**Q80. The income of a man increased by Rs.8000 each month. If his income in June is Rs.15000 and he spend 70% of his income in September, then find the saving of man in September?**

एक आदमी की आय में हर महीने 8000 रुपये की वृद्धि हुई। यदि जून में उसकी आय 15000 रुपये है, और वह सितंबर में अपनी आय का 70% खर्च करता है, तो सितंबर में आदमी की बचत ज्ञात कीजिए?

- (a) Rs. 8100 / 8100 रुपये
- (b) Rs. 11700 / 11700 रुपये
- (c) Rs. 5500 / 5500 रुपये
- (d) Rs. 12600 / 12600 रुपये
- (e) Rs. 15200 / 15200 रुपये

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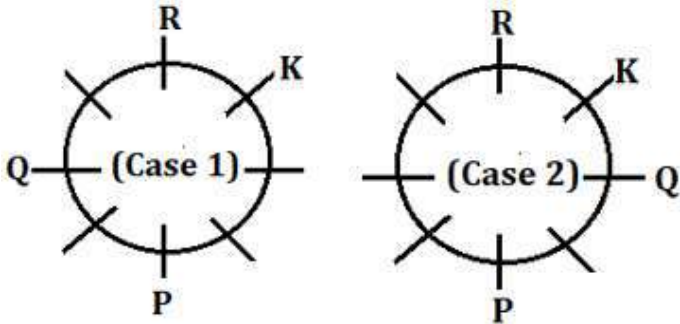
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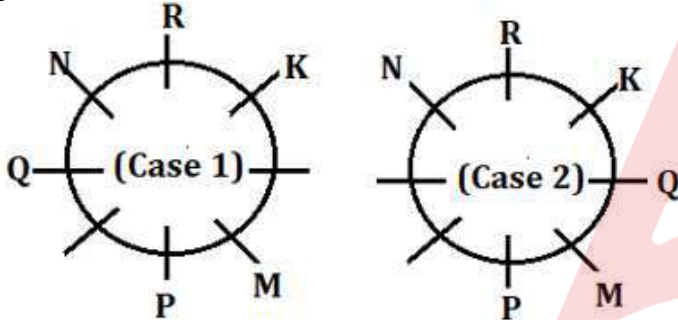
## Solutions

### S1. Ans.(b)

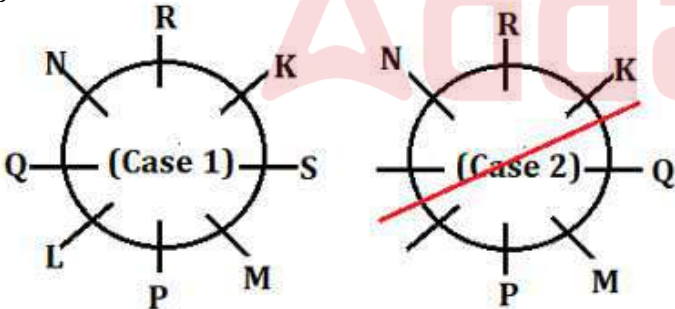
**Sol.** Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. There are two possible cases as: -



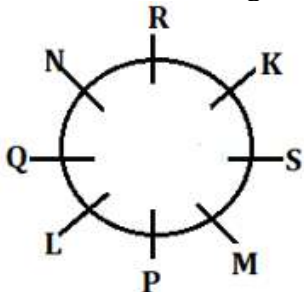
N faces M who doesn't sit adjacent to R. So, N will sit immediate right of R as there are no two opposite places left for placing N and M according to the given condition.



L sits 3<sup>rd</sup> to the left of S. Here, Case 2 is eliminated as there is no place left for placing L and S as per the given condition.



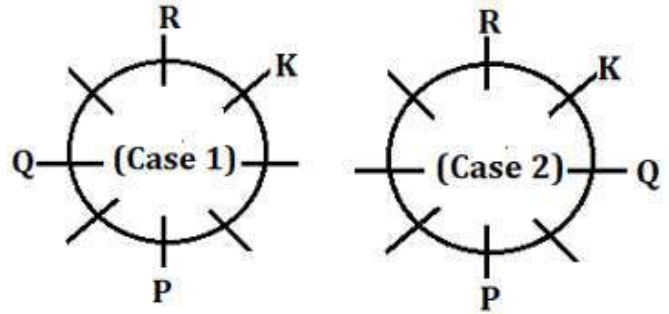
Thus, the final arrangement is: -



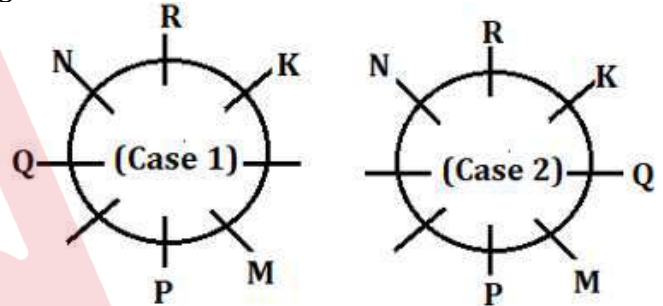
Q sits immediate left of L.

### S2. Ans.(d)

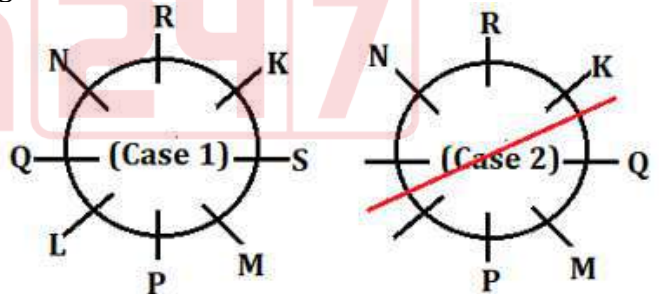
**Sol.** Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. There are two possible cases as: -



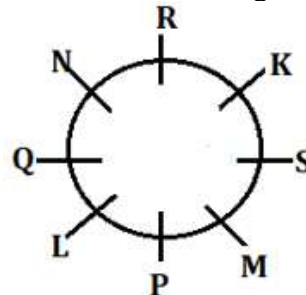
N faces M who doesn't sit adjacent to R. So, N will sit immediate right of R as there are no two opposite places left for placing N and M according to the given condition.



L sits 3<sup>rd</sup> to the left of S. Here, Case 2 is eliminated as there is no place left for placing L and S as per the given condition.



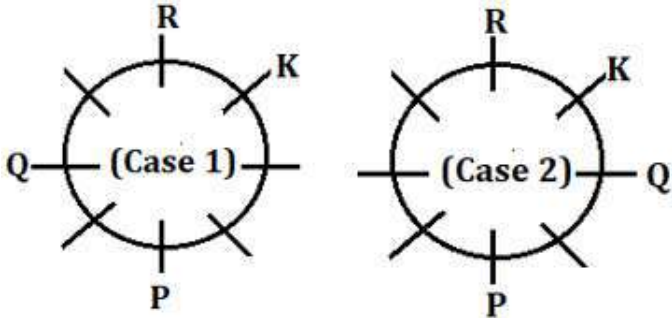
Thus, the final arrangement is: -



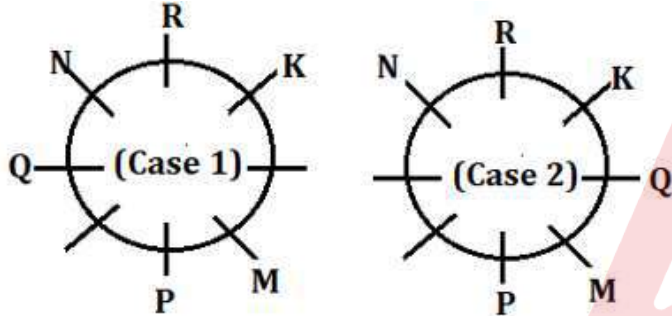
Four persons sit between Q and M when counted from right of M.

**S3. Ans.(c)**

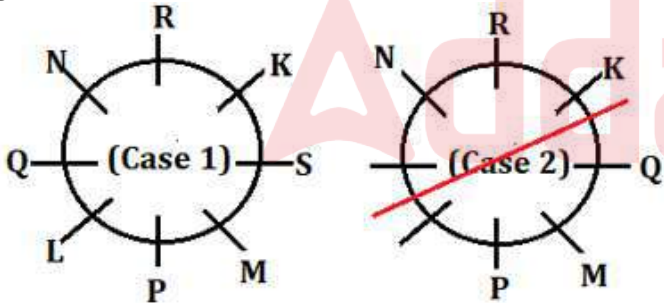
**Sol.** Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. There are two possible cases as :-



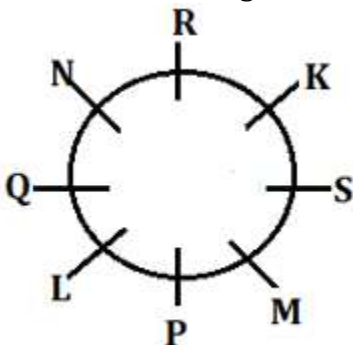
N faces M who doesn't sit adjacent to R. So, N will sit immediate right of R as there are no two opposite places left for placing N and M according to the given condition.



L sits 3<sup>rd</sup> to the left of S. Here, Case 2 is eliminated as there is no place left for placing L and S as per the given condition.



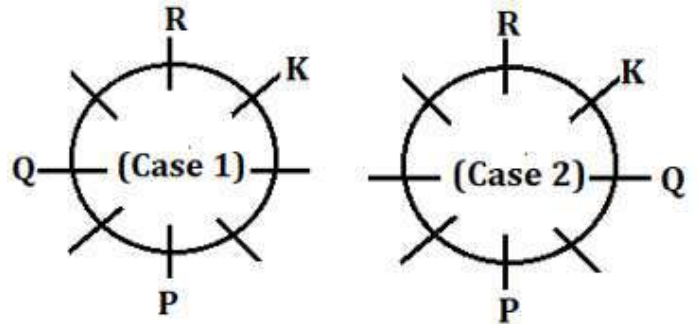
Thus, the final arrangement is :-



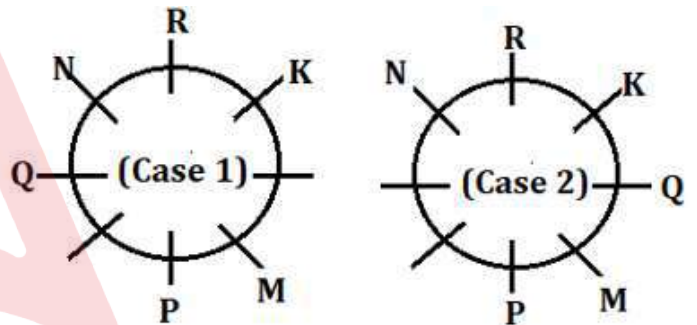
L faces K.

**S4. Ans.(b)**

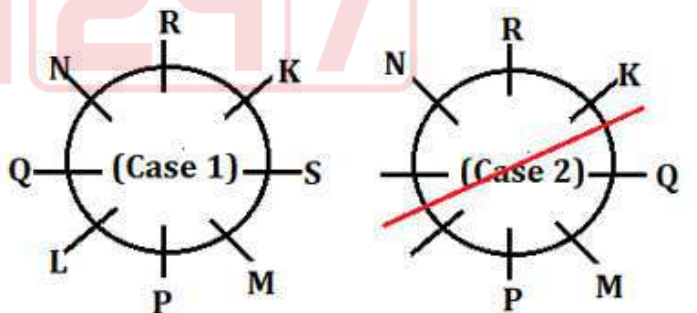
**Sol.** Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. There are two possible cases as :-



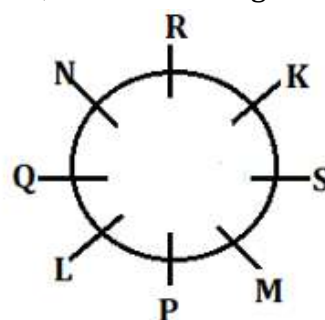
N faces M who doesn't sit adjacent to R. So, N will sit immediate right of R as there are no two opposite places left for placing N and M according to the given condition.



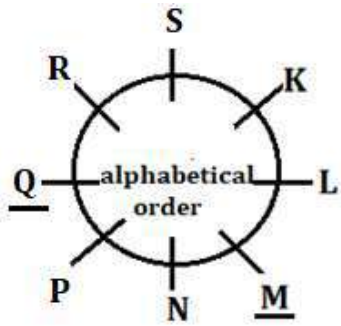
L sits 3<sup>rd</sup> to the left of S. Here, Case 2 is eliminated as there is no place left for placing L and S as per the given condition.



Thus, the final arrangement is :-



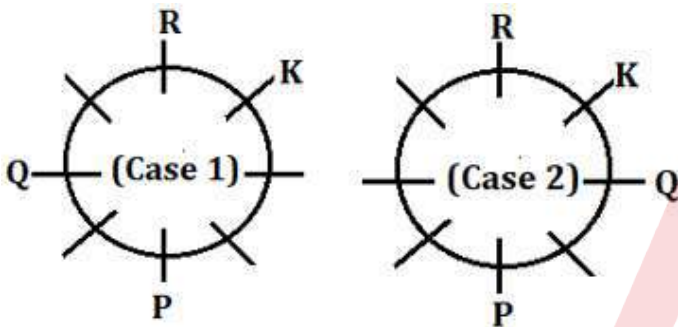




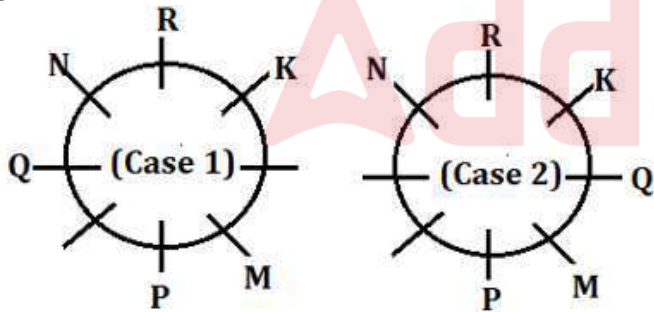
Two persons i.e., M and Q remain at same position.

**S5. Ans.(e)**

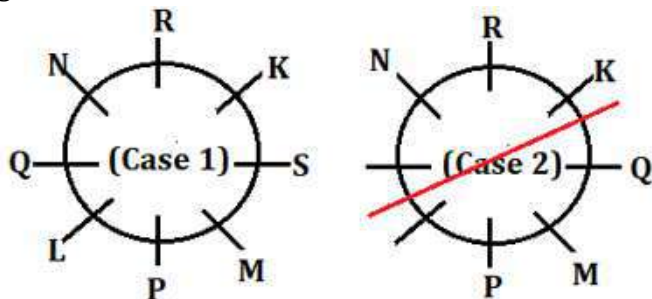
**Sol.** Three persons sit between P and R who sits immediate right of K. Q neither sits adjacent to R nor adjacent to P. There are two possible cases as:-



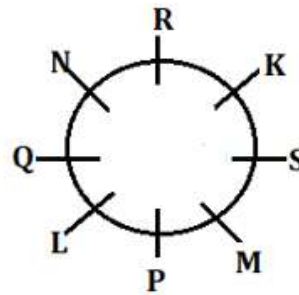
N faces M who doesn't sit adjacent to R. So, N will sit immediate right of R as there are no two opposite places left for placing N and M according to the given condition.



L sits 3<sup>rd</sup> to the left of S. Here, Case 2 is eliminated as there is no place left for placing L and S as per the given condition.



Thus, the final arrangement is:-



M sits 3<sup>rd</sup> to the right of Q.

**S6. Ans.(d)**

**Sol.** Four persons live between M and R who lives on an even numbered floor. There are three possible cases as:-

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
8		R	
7	M		
6			R
5			
4			
3		M	
2	R		
1			M

One person lives between M and N. Here, one more possibility comes from case 2. T lives just below P and above Q. T doesn't live on even numbered floor. Here Case 2 is ruled out as no place left for T according to the given condition.

Floors	Persons (Case 1)	Persons (Case-2)	Persons (Case 3)	Persons (Case 2a)
8		R	P	R
7	M		T	
6			R	P
5	N	N	Q/	T
4	P		Q/	Q/
3	T	M	N	M
2	R		Q/	Q/
1	Q		M	N

Number of persons live between S and P is same as live between S and O. Here, Case 2a is eliminated as there is no place left to place O and S according to the given condition. At least two persons live above P, so Case 3 is also eliminated as not satisfying the given condition.

Floors	Persons (Case 1)	Persons (Case-3)	Persons (Case-2a)
8	O	P	R
7	M	T	
6	S	R	P
5	N	S	T
4	P	Q	/Q
3	T	N	M
2	R	Ø	/Q
1	Q	M	N

Thus, the final arrangement is: -

Floors	Persons
8	O
7	M
6	S
5	N
4	P
3	T
2	R
1	Q

S lives on 6<sup>th</sup> floor.

### S7. Ans.(e)

**Sol.** Four persons live between M and R who lives on an even numbered floor. There are three possible cases as: -

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
8		R	
7	M		
6			R
5			
4			
3		M	
2	R		
1			M

One person lives between M and N. Here, one more possibility comes from case 2. T lives just below P and above Q. T doesn't live on even numbered floor. Here Case2 is ruled out as no place left for T according to the given condition.

Floors	Persons (Case 1)	Persons (Case-2)	Persons (Case 3)	Persons (Case 2a)
8		R	P	R
7	M		T	
6			R	P
5	N	N	Q/	T
4	P		Q/	Q/
3	T	M	N	M
2	R		Q/	Q/
1	Q		M	N

Number of persons live between S and P is same as live between S and O. Here, Case 2a is eliminated as there is no place left to place O and S according to the given condition. At least two persons live above P, so Case 3 is also eliminated as not satisfying the given condition.

Floors	Persons (Case 1)	Persons (Case-3)	Persons (Case-2a)
8	O	P	R
7	M	T	
6	S	R	P
5	N	S	T
4	P	Q	/Q
3	T	N	M
2	R	Ø	/Q
1	Q	M	N

Thus, the final arrangement is: -

Floors	Persons
8	O
7	M
6	S
5	N
4	P
3	T
2	R
1	Q

Four persons (M, S, N, P) live between O and T.

**S8. Ans.(a)**

**Sol.** Four persons live between M and R who lives on an even numbered floor. There are three possible cases as: -

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
8		R	
7	M		
6			R
5			
4			
3		M	
2	R		
1			M

One person lives between M and N. Here, one more possibility comes from case 2. T lives just below P and above Q. T doesn't live on even numbered floor. Here Case 2 is ruled out as no place left for T according to the given condition.

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)	Persons (Case 2a)
8		R	P	R
7	M		T	
6			R	P
5	N	N	Q/	T
4	P		Q/	Q/
3	T	M	N	M
2	R		Q/	Q/
1	Q		M	N

Number of persons live between S and P is same as live between S and O. Here, Case 2a is eliminated as there is no place left to place O and S according to the given condition. At least two persons live above P, so Case 3 is also eliminated as not satisfying the given condition.

Floors	Persons (Case 1)	Persons (Case 3)	Persons (Case 2a)
8	O	P	R
7	M	T	
6	S	R	P
5	N	S	T
4	P	Q	/Q
3	T	N	M
2	R	O	/Q
1	Q	M	N

Thus, the final arrangement is: -

Floors	Persons
8	O
7	M
6	S
5	N
4	P
3	T
2	R
1	Q

O lives on the topmost floor.

**S9. Ans.(c)**

**Sol.** Four persons live between M and R who lives on an even numbered floor. There are three possible cases as: -

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
8		R	
7	M		
6			R
5			
4			
3		M	
2	R		
1			M

One person lives between M and N. Here, one more possibility comes from case 2. T lives just below P and above Q. T doesn't live on even numbered floor. Here Case2 is ruled out as no place left for T according to the given condition.

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)	Persons (Case 2a)
8		R	P	R
7	M		T	
6			R	P
5	N	N	Q/	T
4	P		Q/	Q/
3	T	M	N	M
2	R		Q/	Q/
1	Q		M	N

Number of persons live between S and P is same as live between S and O. Here, Case 2a is eliminated as there is no place left to place O and S according to the given condition. At least two persons live above P, so Case 3 is also eliminated as not satisfying the given condition.

Floors	Persons (Case 1)	Persons (Case 3)	Persons (Case 2a)
8	O	P	R
7	M	T	
6	S	R	P
5	N	S	T
4	P	Q	/Q
3	T	N	M
2	R	O	/Q
1	Q	M	N

Thus, the final arrangement is: -

Floors	Persons
8	O
7	M
6	S
5	N
4	P
3	T
2	R
1	Q

P lives exactly between Q and M.

### S10. Ans.(e)

Sol. Four persons live between M and R who lives on an even numbered floor. There are three possible cases as: -

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
8		R	
7	M		
6			R
5			
4			
3		M	
2	R		
1			M

One person lives between M and N. Here, one more possibility comes from case 2. T lives just below P and above Q. T doesn't live on even numbered floor. Here Case2 is ruled out as no place left for T according to the given condition.

Floors	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)	Persons (Case 2a)
8		R	P	R
7	M		T	
6			R	P
5	N	N	Q/	T
4	P		Q/	Q/
3	T	M	N	M
2	R		Q/	Q/
1	Q		M	N

Number of persons live between S and P is same as live between S and O. Here, Case 2a is eliminated as there is no place left to place O and S according to the given condition. At least two persons live above P, so Case 3 is also eliminated as not satisfying the given condition.

Floors	Persons (Case 1)	Persons (Case 3)	Persons (Case 2a)
8	O	P	R
7	M	T	
6	S	R	P
5	N	S	T
4	P	Q	/Q
3	T	N	M
2	R	O	/Q
1	Q	M	N

Thus, the final arrangement is: -

Floors	Persons
8	O
7	M
6	S
5	N
4	P
3	T
2	R
1	Q

All the persons given in the options live on an even numbered floor except Q who lives on an odd numbered floor.

**S11. Ans.(c)**

**Sol.** There are six numbers (24%, 82#, 47\*, 42&, 28@, 64!).

**S12. Ans.(a)**

**Sol.** 5<sup>th</sup> element from the left end = %  
and 10<sup>th</sup> element to the right of % = 2

**S13. Ans.(b)**

**Sol.** Number which is 8<sup>th</sup> from the left end = 9  
And the number which is 6<sup>th</sup> from the right end = 6  
Thus, the sum of 9 + 6 = 15

**S14. Ans.(d)**

**Sol.** There are two even number (47, 49)

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**S15. Ans.(d)**

**Sol.** There are five 4s in the series.

**S16. Ans.(c)**

**Sol.**

Words	Symbols
Daily	li
Walk	ka
Is	im
Good	Og
Exercise	Sx
Long	gl

**S17. Ans.(b)**

**Sol.**

Words	Symbols
Daily	li
Walk	ka
Is	im
Good	Og
Exercise	Sx
Long	gl

**S18. Ans.(e)**

**Sol.**

Words	Symbols
Daily	li
Walk	ka
Is	im
Good	Og
Exercise	Sx
Long	gl

**S19. Ans.(e)**

**Sol.**

Words	Symbols
Daily	li
Walk	ka
Is	im
Good	Og
Exercise	Sx
Long	gl

**S20. Ans.(a)**

**Sol.**

Words	Symbols
Daily	li
Walk	ka
Is	im
Good	Og
Exercise	Sx
Long	gl

**S21. Ans.(d)**

**Sol.** 3<sup>rd</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> letters are L, I, N, S and P respectively.

Thus, no meaningful word can be formed.

**S22. Ans.(a)**

**Sol.** C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. There are three Possible cases as:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday			G
Thursday	C		
Friday		C	
Saturday			C

One person goes between E and F. Here, Case 3 is ruled out as no place left for E and F according to the given conditions, so:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday	E/F		G
Thursday	C	E/F	
Friday	E/F	C	
Saturday		E/F	G

Number of persons goes after F is same as number of persons goes before D. Here, Case 1 is ruled out as there is no place left for D as per the given condition. Hence, D will go on Sunday in Case 2:-

Days	Persons (Case 1)	Persons (Case 2)
Sunday	B	D
Monday	G	B
Tuesday		G
Wednesday	E/F	
Thursday	G	E
Friday	E/F	C
Saturday		F

We know A is one of the persons and only one place is left thus the final arrangement is:-

Days	Persons
Sunday	D
Monday	B
Tuesday	G
Wednesday	A
Thursday	E
Friday	C
Saturday	F

B goes market on Monday.

**S23. Ans.(e)**

**Sol.** C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. There are three Possible cases as:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday			G
Thursday	C		
Friday		C	
Saturday			C

One person goes between E and F. Here, Case 3 is ruled out as no place left for E and F according to the given conditions, so:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday	E/F		G
Thursday	C	E/F	
Friday	E/F	C	
Saturday		E/F	G

Number of persons goes after F is same as number of persons goes before D. Here, Case 1 is ruled out as there is no place left for D as per the given condition. Hence, D will go on Sunday in Case 2:-

Days	Persons (Case 1)	Persons (Case 2)
Sunday	B	D
Monday	G	B
Tuesday		G
Wednesday	E/F	
Thursday	G	E
Friday	E/F	C
Saturday		F



We know A is one of the persons and only one place is left thus the final arrangement is: -

Days	Persons
Sunday	D
Monday	B
Tuesday	G
Wednesday	A
Thursday	E
Friday	C
Saturday	F

Four persons go between D and C.

**S24. Ans.(c)**

**Sol.** C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. There are three Possible cases as:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday			G
Thursday	C		
Friday		C	
Saturday			C

One person goes between E and F. Here, Case 3 is ruled out as no place left for E and F according to the given conditions, so: -

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	<del>B</del>
Wednesday	E/F		<del>G</del>
Thursday	C	E/F	
Friday	E/F	C	
Saturday		E/F	<del>G</del>

Number of persons goes after F is same as number of persons goes before D. Here, Case 1 is ruled out as there is no place left for D as per the given condition. Hence, D will go on Sunday in Case 2: -

Days	Persons (Case 1)	Persons (Case 2)
Sunday	<del>B</del>	D
Monday	<del>G</del>	B
Tuesday		G
Wednesday	<del>E/F</del>	
Thursday	<del>G</del>	E
Friday	<del>E/F</del>	C
Saturday		F

We know A is one of the persons and only one place is left thus the final arrangement is: -

Days	Persons
Sunday	D
Monday	B
Tuesday	G
Wednesday	A
Thursday	E
Friday	C
Saturday	F

A- Wednesday is correct combination.

**S25. Ans.(e)**

**Sol.** C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. There are three Possible cases as:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday			G
Thursday	C		
Friday		C	
Saturday			C

One person goes between E and F. Here, Case 3 is ruled out as no place left for E and F according to the given conditions, so: -

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	<del>B</del>
Wednesday	E/F		<del>G</del>
Thursday	C	E/F	
Friday	E/F	C	
Saturday		E/F	<del>G</del>

Number of persons goes after F is same as number of persons goes before D. Here, Case 1 is ruled out as there is no place left for D as per the given condition. Hence, D will go on Sunday in Case 2: -

Days	Persons (Case 1)	Persons (Case 2)
Sunday	<del>B</del>	D
Monday	<del>G</del>	B
Tuesday		G
Wednesday	<del>E/F</del>	
Thursday	<del>G</del>	E
Friday	<del>E/F</del>	C
Saturday		F

We know A is one of the persons and only one place is left thus the final arrangement is: -

Days	Persons
Sunday	D
Monday	B
Tuesday	G
Wednesday	A
Thursday	E
Friday	C
Saturday	F

G goes market on Tuesday.

**S26. Ans.(b)**

**Sol.** C goes to market one of the days after Wednesday. Two persons go between C and G who goes just after B. There are three Possible cases as:-

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	B
Wednesday			G
Thursday	C		
Friday		C	
Saturday			C

One person goes between E and F. Here, Case 3 is ruled out as no place left for E and F according to the given conditions, so: -

Days	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Sunday	B		
Monday	G	B	
Tuesday		G	<del>B</del>
Wednesday	E/F		<del>G</del>
Thursday	C	E/F	
Friday	E/F	C	
Saturday		E/F	<del>G</del>

Number of persons goes after F is same as number of persons goes before D. Here, Case 1 is ruled out as there is no place left for D as per the given condition. Hence, D will go on Sunday in Case 2: -

Days	Persons (Case 1)	Persons (Case 2)
Sunday	<del>B</del>	D
Monday	<del>G</del>	B
Tuesday		G
Wednesday	<del>E/F</del>	
Thursday	<del>G</del>	E
Friday	<del>E/F</del>	C
Saturday		F

We know A is one of the persons and only one place is left thus the final arrangement is: -

Days	Persons
Sunday	D
Monday	B
Tuesday	G
Wednesday	A
Thursday	E
Friday	C
Saturday	F

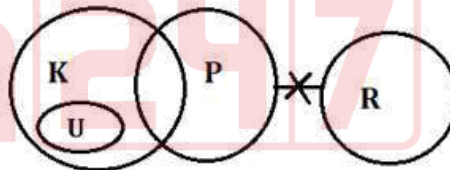
Position of two persons remains Unchanged.

Days	Persons	Alphabetical Order
Sunday	D	A
Monday	B	B
Tuesday	G	C
Wednesday	A	D
Thursday	E	E
Friday	C	F
Saturday	F	G

**S27. Ans.(e)**

**Sol.** I. Follows – Because U is only related to K, so relation of U with any other elements is not possible.

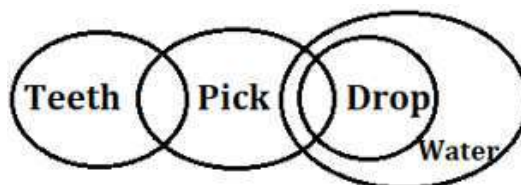
II. Follows- No P is R and Some K are P thus the part of P which is K cannot be R.



**S28. Ans.(a)**

**Sol.** I. Follows- Because Some Drop are Pick and all Drops are Water so it is clear that some Pick are Water.

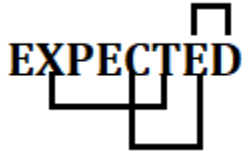
II. Not Follows- Because it is given that Only a few Teeth are Pick, so all Teeth cannot be Pick even in possibilities.





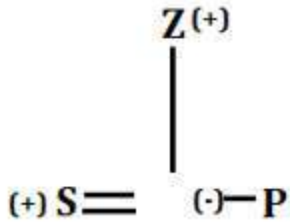
S29. Ans.(b)

Sol. There are three pairs,



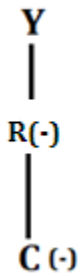
S30. Ans.(d)

Sol. S is son-in-law of Z who is father of P. P is unmarried member of the family.

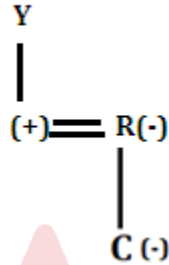


R is mother of C who is granddaughter of Y. So, here we have two cases:

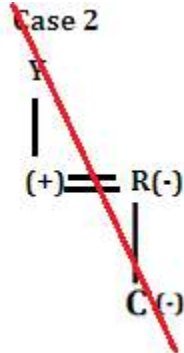
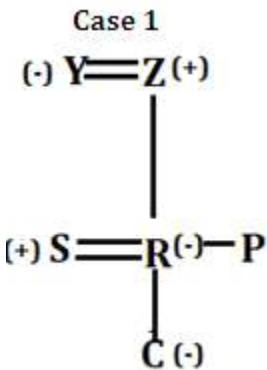
Case 1



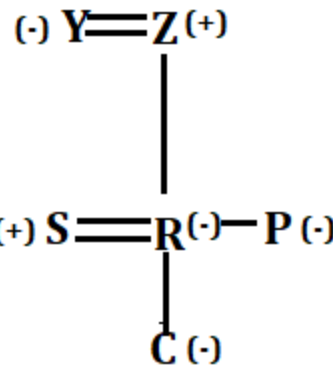
Case 2



After combining the above diagrams Y will be wife of Z and R will be the daughter of Z as the family is of three generation with two married couple. So, case 2 gets eliminated here.



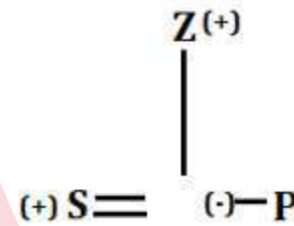
Number of females are more than male members, so P will be a female member thus the final arrangement is: -



P is aunt of C.

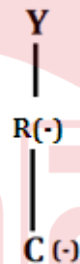
S31. Ans.(a)

Sol. S is son-in-law of Z who is father of P. P is unmarried member of the family.

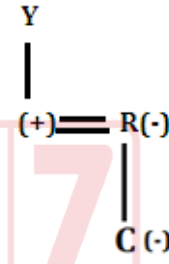


R is mother of C who is granddaughter of Y. So, here we have two cases:

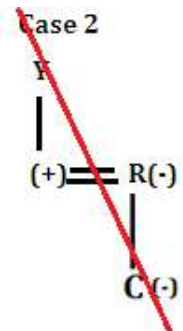
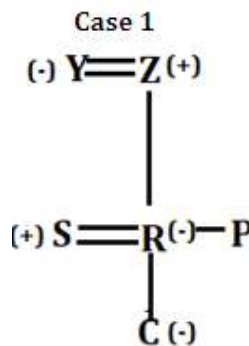
Case 1



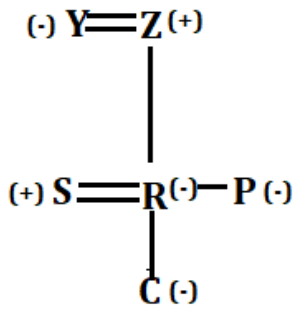
Case 2



After combining the above diagrams Y will be wife of Z and R will be the daughter of Z as the family is of three generation with two married couple. So, case 2 gets eliminated here.



Number of females are more than male members, so P will be a female member thus the final arrangement is: -



Y is Mother-in-law of S.

**S32. Ans.(a)**

**Sol.** Given Number- **5389264863**

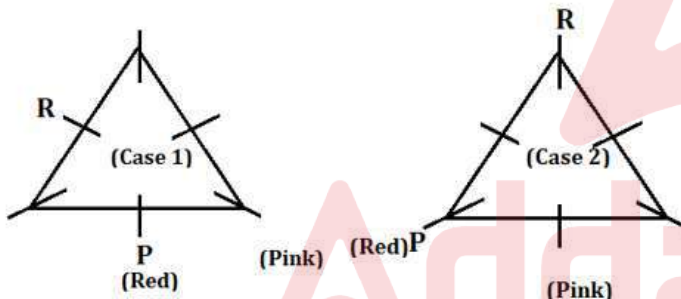
Number after arranged in descending order from left to right = 9886654332

5<sup>th</sup> digit from left end = 6 and 4<sup>th</sup> digit from right end = 4

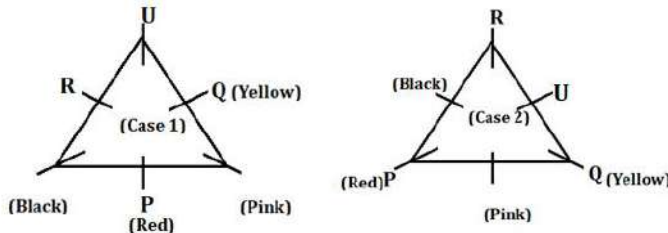
Thus, the sum of 6 + 4 = 10.

**S33. Ans.(c)**

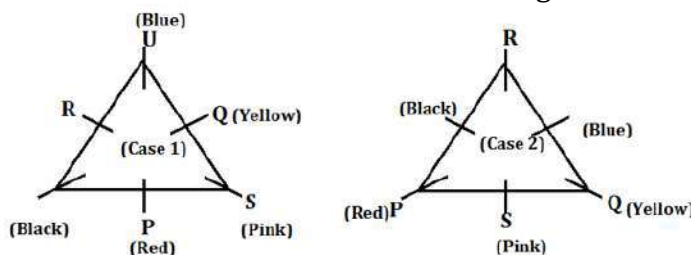
**Sol.** R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. There are two possible cases as P may sit at the middle of the side of the table or at the corner of the table: -



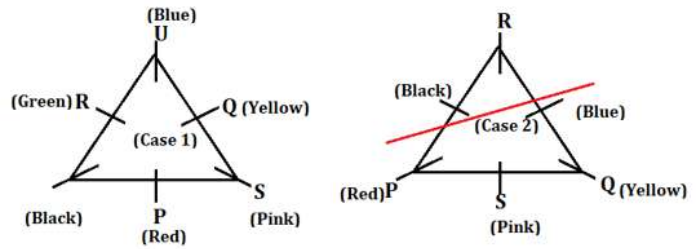
Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow.



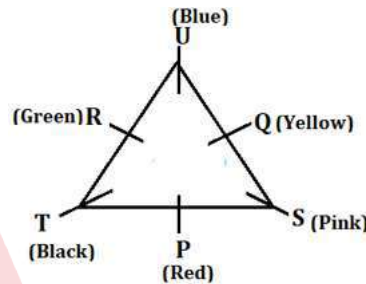
The one who likes blue sits 2<sup>nd</sup> to the right of S.



The one who likes Green doesn't sit at the corner of the table, so case 2 is ruled out as there is no place left at the middle of the side of the table for the one who likes Green.



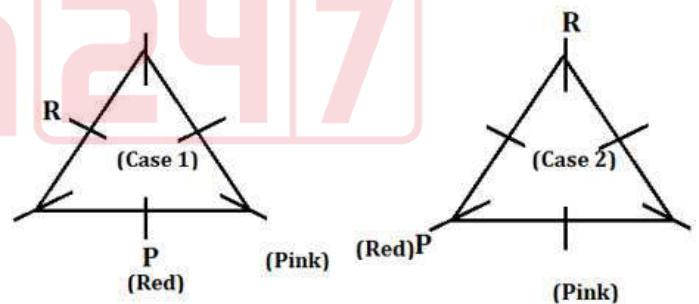
T is one of the persons, so the final arrangement is:-



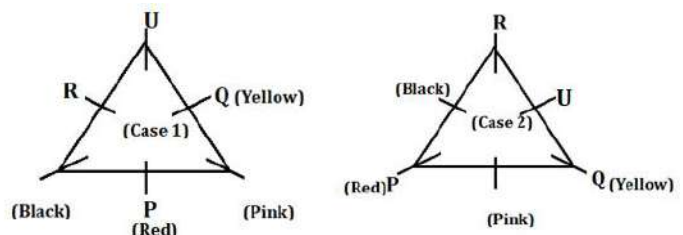
P faces the one who likes Blue.

**S34. Ans.(a)**

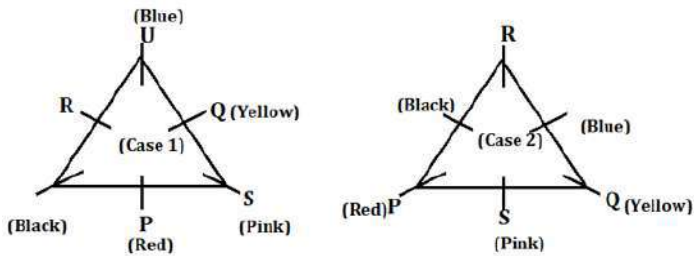
**Sol.** R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. There are two possible cases as P may sit at the middle of the side of the table or at the corner of the table: -



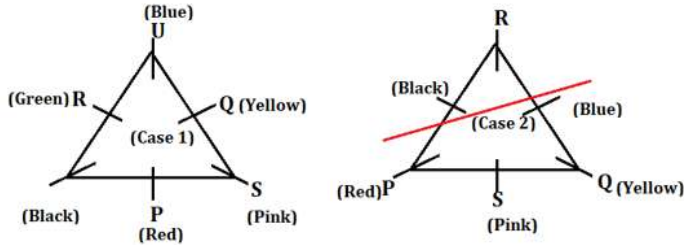
Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow.



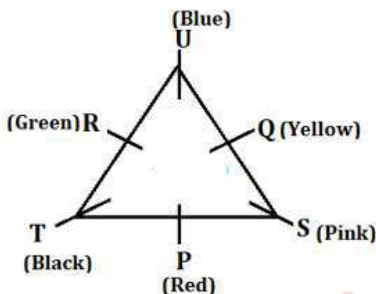
The one who likes blue sits 2<sup>nd</sup> to the right of S.



The one who likes Green doesn't sit at the corner of the table, so case 2 is ruled out as there is no place left at the middle of the side of the table for the one who likes Green.



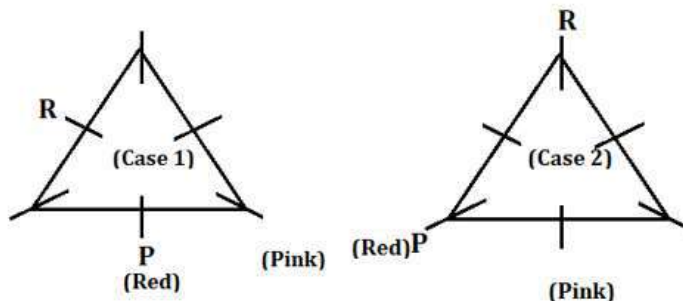
T is one of the persons, so the final arrangement is:



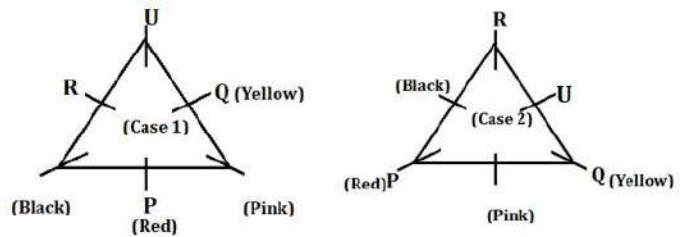
T likes Black color.

**S35. Ans.(e)**

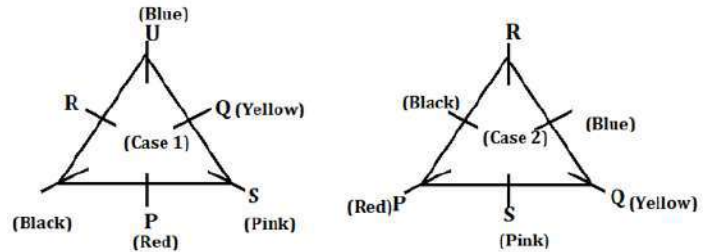
**Sol.** R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. There are two possible cases as P may sit at the middle of the side of the table or at the corner of the table: -



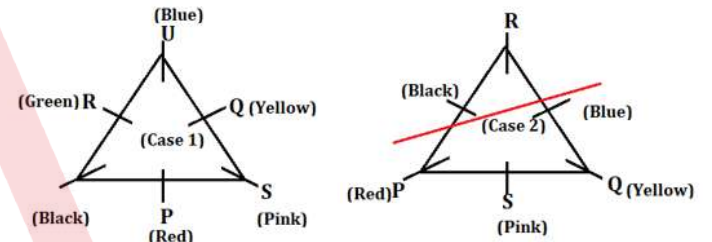
Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow.



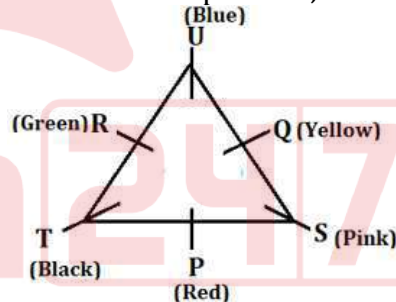
The one who likes blue sits 2<sup>nd</sup> to the right of S.



The one who likes Green doesn't sit at the corner of the table, so case 2 is ruled out as there is no place left at the middle of the side of the table for the one who likes Green.



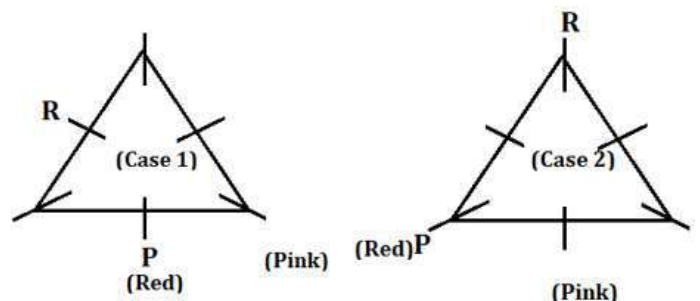
T is one of the persons, so the final arrangement is:-



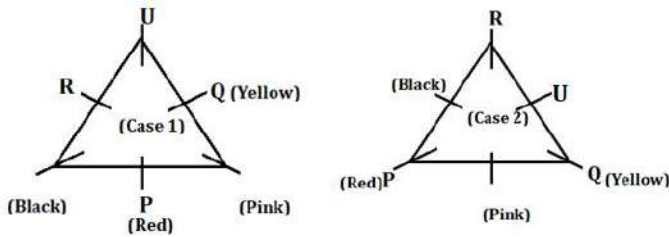
T sits 2<sup>nd</sup> to the left of S.

**S36. Ans.(c)**

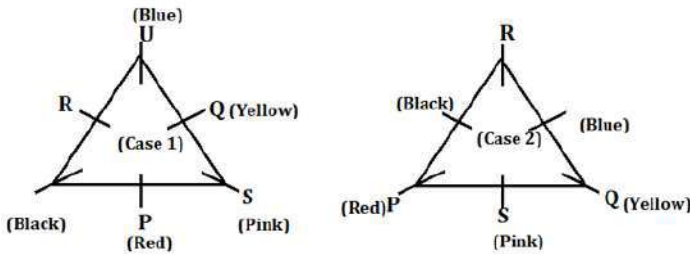
**Sol.** R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. There are two possible cases as P may sit at the middle of the side of the table or at the corner of the table: -



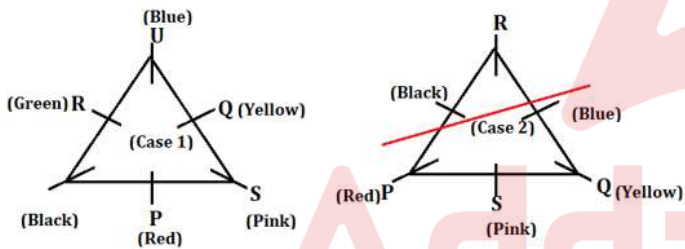
Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow.



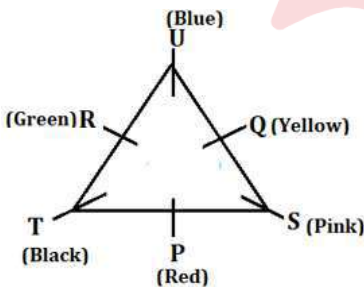
The one who likes blue sits 2<sup>nd</sup> to the right of S.



The one who likes Green doesn't sit at the corner of the table, so case 2 is ruled out as there is no place left at the middle of the side of the table for the one who likes Green.



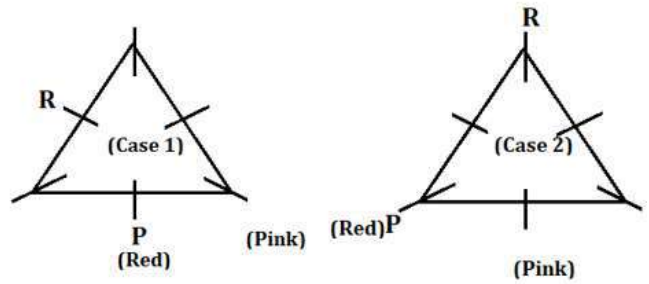
T is one of the persons, so the final arrangement is:-



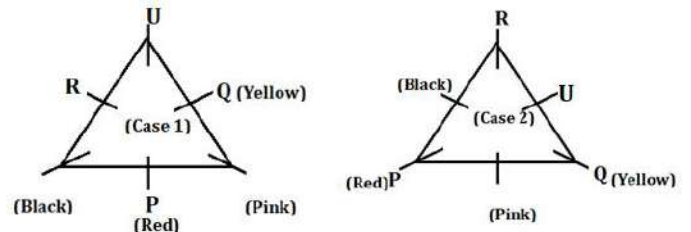
U likes blue color.

**S37. Ans.(c)**

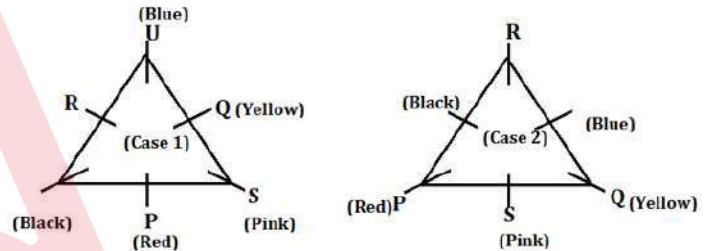
**Sol.** R sits 2<sup>nd</sup> to the left of P who likes Red. The one who likes pink faces R. There are two possible cases as P may sit at the middle of the side of the table or at the corner of the table: -



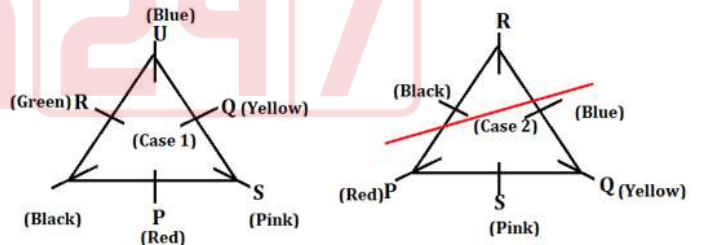
Q sits neither adjacent to P nor adjacent to R. The one who likes Black faces the one who likes Yellow. U sits immediate right of one who likes Yellow.



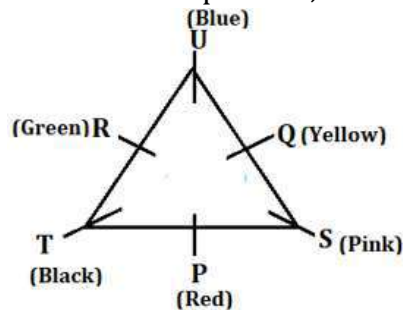
The one who likes blue sits 2<sup>nd</sup> to the right of S.



The one who likes Green doesn't sit at the corner of the table, so case 2 is ruled out as there is no place left at the middle of the side of the table for the one who likes Green.



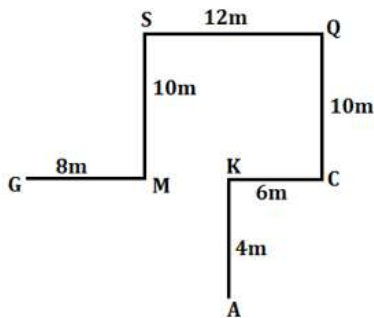
T is one of the persons, so the final arrangement is:-



Two persons sit between S and R when counted from right of S.

**S38. Ans.(b)**

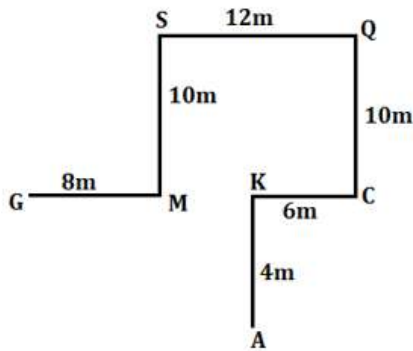
**Sol.**



Point A is in South-East of Point G.

**S39. Ans.(e)**

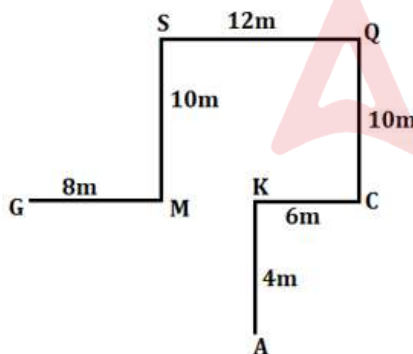
**Sol.**



Total distance covered by him from Point Q to Point A is 20m (10m + 6m + 4m).

**S40. Ans.(a)**

**Sol.**



The 1<sup>st</sup> Point in the given question is in North-East of 2<sup>nd</sup> Point, thus Point C is related to Point A.

**S41. Ans.(b)**

**Sol.** Pattern of series –

$$32 \times 0.5 = 16$$

$$16 \times 1 = 16$$

$$16 \times 2 = 32$$

$$? = 32 \times 4 = 128$$

$$128 \times 8 = 1024$$

**S42. Ans.(a)**

**Sol.** Pattern of series –

$$144 \times 2 = 288$$

$$288 \times 3 = 864$$

$$? = 864 \times 4 = 3456$$

$$3456 \times 5 = 17280$$

$$17280 \times 6 = 103680$$

**S43. Ans.(d)**

**Sol.** Pattern of series –

$$120 + 5 = 125$$

$$125 - 10 = 115$$

$$115 + 15 = 130$$

$$? = 130 - 20 = 110$$

$$110 + 25 = 135$$

**S44. Ans.(c)**

**Sol.** Pattern of series –

$$223 + 2^2 = 227$$

$$227 + 3^2 = 236$$

$$236 + 4^2 = 252$$

$$252 + 5^2 = 277$$

$$? = 277 + 6^2 = 313$$

**S45. Ans.(e)**

**Sol.** Pattern of series –

$$60 + 11 = 71$$

$$71 + 22 = 93$$

$$93 + 33 = 126$$

$$? = 126 + 44 = 170$$

$$170 + 55 = 225$$

**S46. Ans.(b)**

**Sol.**

$$9 + 2^3 = 17$$

$$? = 17 + 3^3 = 44$$

$$44 + 4^3 = 108$$

$$108 + 5^3 = 233$$

$$233 + 6^3 = 449$$

**S47. Ans.(e)**

**Sol.** 270-125=?

$$? = 145$$

**S48. Ans.(c)**

**Sol.**

$$\frac{117}{5} \times \frac{50}{100} \times 200 = ?$$

$$2340 = ?$$



**S49. Ans.(d)**

**Sol.**  $4.9+3.6=?$

$?=8.5$

**S50. Ans.(b)**

**Sol.**

$$\frac{18}{7} \times \frac{21}{18} = ? - 1$$

$$3 + 1 = ?$$

$$4 = ?$$

**S51. Ans.(a)**

**Sol.**

$$\frac{25}{100} \times \frac{?}{100} \times 80 = 560$$
$$? = 2800$$

**S52. Ans.(a)**

**Sol.**

$$\frac{3}{8} \times 240 + \frac{1}{7} \times 1400 = ?$$

$$? = 90 + 200$$

$$? = 290$$

**S53. Ans.(b)**

**Sol.**

$$330 - 80 = ?^2 \times 10$$

$$250 = ?^2 \times 10$$

$$? = 5$$

**S54. Ans.(c)**

**Sol.**  $11+31-25+?=105$

$$88 = ?$$

**S55. Ans.(e)**

**Sol.**

$$\frac{80}{100} \times \frac{2}{5} \times 300 = ?^2 - 4$$

$$96 + 4 = ?^2$$

$$?^2 = 100$$

$$? = 10$$

**S56. Ans.(d)**

**Sol.**

$$\frac{125}{100} \times \frac{4}{7} \times 2800 = ?$$

$$2000 = ?$$

**S57. Ans.(d)**

**Sol.**  $8 - 2.2 + 2.2 = ?$

$$?=8$$

**S58. Ans.(b)**

**Sol.**  $55.5 + 5 = ?$

$$? = 60.5$$

**S59. Ans.(d)**

**Sol.** Required ratio =  $500 : 500 = 1 : 1$

**S60. Ans.(a)**

**Sol.**

$$\text{Required percentage} = \frac{700}{140} \times 100 = 500\%$$

**S61. Ans.(d)**

**Sol.** Required sum =  $(500+200+850+140)=1690$

**S62. Ans.(c)**

**Sol.**

$$\text{Required average} = \frac{500+400+500}{3} = 466\frac{2}{3}$$

**S63. Ans.(a)**

**Sol.** Required difference

$$= (500+700)-(500+120)=580$$

**S64. Ans.(a)**

**Sol.**

$$\text{Length of train B} = \frac{4}{3} \times 150 = 200 \text{ meters}$$

$$\text{Required ratio} = \frac{150}{30} : \frac{200}{50} = 5 : 4$$

**S65. Ans.(e)**

**Sol.**

ATQ,

$$7200 = \frac{20000 \times X \times 3}{100}$$

$$\frac{7200 \times 100}{20000 \times 3} = X$$

$$X = 12\%$$

**S66. Ans.(d)**

**Sol.**

Total cost price of bike for P = Rs.  $(7200+1200) = \text{Rs.}8400$

Given, selling price of bike = 12000 Rs.

Profit =  $12000 - 8400 = \text{Rs.} 3600$

$$\text{Profit}\% = \frac{3600}{8400} \times 100 = 42.85\% \approx 43\%$$

**S67. Ans.(d)**

**Sol.**

Total capacity of a tank = L.C.M. (2, 4, 5) = 20 unit

Efficiency of pipe A =  $\frac{20}{2} = 10$  unit/hour

Efficiency of pipe B =  $\frac{20}{4} = 5$  unit/hour

Efficiency of pipe C =  $\frac{20}{5} = 4$  unit/hour

Required time =  $\frac{20}{10+5+4} = \frac{20}{19}$  hours

**S68. Ans.(c)**

**Sol.**

Let the present age of A and B is 5x and 6x respectively.

Then

$$\frac{5x + 10}{6x + 10} = \frac{7}{8}$$

$$40x + 80 = 42x + 70$$

$$2x = 10$$

$$x = 5$$

Present age of A =  $5 \times 5 = 25$  years

**S69. Ans.(a)**

**Sol.**

Quantity of milk in vessel A =  $150 \times \frac{7}{15} = 70$  liters

Quantity of water in vessel A =  $150 - 70 = 80$  liters

Quantity of milk in vessel B =  $50 \times \frac{7}{10} = 35$  liter

Quantity of water in vessel B =  $50 - 35 = 15$  liters

Quantity of water in mixture C =  $80 + 15 = 95$  liters

**S70. Ans.(a)**

**Sol.**

Let radius of the circle is r cm.

$$2\pi r = 44$$

$$2 \times \frac{22}{7} \times r = 44$$

$$r = 7 \text{ cm}$$

Breadth of rectangle =  $\frac{8}{7} \times 7 = 8$  cm

Let the length of rectangle is l cm

ATQ,

$$2(\text{length} + \text{Breadth}) = 96$$

$$l + 8 = 48$$

$$l = 40 \text{ cm}$$

Area of rectangle =  $40 \times 8 = 320 \text{ cm}^2$

**S71. Ans.(e)**

**Sol.**

$$\text{I. } x^2 + 3x + 2x + 6 = 0$$

$$(x + 2)(x + 3) = 0$$

$$x = -3, -2$$

$$\text{II. } y^2 + 4y + 3y + 12 = 0$$

$$(y + 4)(y + 3) = 0$$

$$y = -4, -3$$

clearly,  $x \geq y$

**S72. Ans.(c)**

**Sol.**

$$\text{I. } 2x^2 + 6x - x - 3 = 0$$

$$(2x - 1)(x + 3) = 0$$

$$x = -3, \frac{1}{2}$$

$$\text{II. } 3y^2 - 3y + y - 1 = 0$$

$$(3y + 1)(y - 1) = 0$$

$$y = -\frac{1}{3}, 1$$

clearly, no relation

**S73. Ans.(a)**

**Sol.** from I & II

$$x = 2$$

$$y = 1$$

clearly,  $x > y$

**S74. Ans.(d)**

**Sol.**

$$\text{I. } x^2 - 7x - 6x + 42 = 0$$

$$(x - 7)(x - 6) = 0$$

$$x = 6, 7$$

$$\text{II. } y^2 - 9y - 8y + 72 = 0$$

$$(y - 9)(y - 8) = 0$$

$$y = 8, 9$$

clearly,  $x < y$

**S75. Ans.(e)**

**Sol.**

$$\text{I. } x^2 + 6x + 8 = 0$$

$$x^2 + 2x + 4x + 8 = 0$$

$$(x + 4)(x + 2) = 0$$

$$x = -2, -4$$

$$\text{II. } y^2 + 10y + 24 = 0$$

$$y^2 + 6y + 4y + 24 = 0$$

$$(y + 4)(y + 6) = 0$$

$$y = -4, -6$$

So,  $x \geq y$ .

**S76. Ans.(c)**

**Sol.**

Let the amount invested by Q for "X" months  
 Ratio of profit sharing of P to Q =  $5000 \times 12 : 8000 \times X$   
 $15 : 2X$

ATQ.

$$\frac{15}{2X} = \frac{10000}{22000 - 10000}$$

$$X = 9$$

**S77. Ans.(e)**

**Sol.**

Let the efficiency of A = 5 units/ day  
 So, efficiency of B =  $5 \times \frac{80}{100} = 4 \text{ units / day}$   
 Required days =  $\frac{90 \times 5}{5+4} = 50 \text{ days}$

**S78. Ans.(d)**

**Sol.** Let the speed of boat in still water & speed of stream be  $7x \text{ km/hr}$  &  $4x \text{ km/hr}$  respectively.

ATQ

$$\frac{156}{7x-4x} = 26$$

$$x = 2$$

Required difference =  $(7 \times 2 - 4 \times 2) = 14 - 8 = 6 \text{ km/hr}$

**S79. Ans.(a)**

**Sol.** Total age of all ten students =  $25 \times 10 = 250$  years

Let age of teacher be X years

$$250 + X = (25 + 2) \times 11$$

$$X = 47 \text{ years}$$

**S80. Ans.(b)**

**Sol.** ATQ

Income in September =  $15000 + 8000 \times 3 = 15000 + 24000 = \text{Rs. } 39000$

Saving of a man =  $39000 \times \frac{(100-70)}{100} = \text{Rs. } 11700$



Adda247



## Free Practice Paper 4

**Directions (1-5): Study the given information carefully and answer the related questions:**

दी गई जानकारी का ध्यानपूर्वक अध्ययन कीजिये और संबंधित प्रश्नों के उत्तर दीजिये:

Seven boxes are placed one above the other in a shelf. Prime number of boxes are placed above box Q. Box N is placed three places below box Q. Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Box R is placed above box S.

सात बॉक्स को एक के ऊपर एक शेल्फ में रखा गया है। बॉक्स Q के ऊपर अभाज्य संख्या में बॉक्स रखे गए हैं। बॉक्स N को बॉक्स Q से तीन स्थान नीचे रखा गया है। बॉक्स N को बॉक्स M के आसन्न रखा गया है। बॉक्स O को बॉक्स M से चार स्थान दूर रखा गया है। बॉक्स P को बॉक्स O के ऊपर रखा गया है। बॉक्स R को बॉक्स S के ऊपर रखा गया है।

**Q1. What is the position of box R from top in the shelf?**

शेल्फ में ऊपर से बॉक्स R का स्थान क्या है?

- (a) 5<sup>th</sup> / पांचवां
- (b) 4<sup>th</sup> / चौथा
- (c) 1<sup>st</sup> / पहला
- (d) 3<sup>rd</sup> / तीसरा
- (e) None of these / इनमें से कोई नहीं

**Q2. Which among the following box is placed three places below box O?**

निम्नलिखित में से कौन सा बॉक्स, बॉक्स O से तीन स्थान नीचे रखा गया है?

- (a) Box M / बॉक्स M
- (b) Box Q / बॉक्स Q
- (c) Box S / बॉक्स S
- (d) Box N / बॉक्स N

(e) None of these / इनमें से कोई नहीं

**Q3. Which among the following box is placed exactly in the middle of the shelf?**

निम्नलिखित में से कौन सा बॉक्स शेल्फ के ठीक बीच में रखा गया है?

- (a) Box S / बॉक्स S
- (b) Box M / बॉक्स M
- (c) Box R / बॉक्स R
- (d) Box Q / बॉक्स Q
- (e) None of these / इनमें से कोई नहीं

**Q4. How many boxes are placed between box S and box P?**

बॉक्स S और बॉक्स P के बीच कितने बॉक्स रखे गए हैं?

- (a) Three / तीन
- (b) Two / दो
- (c) Four / चार
- (d) Five / पांच
- (e) None of these/ इनमें से कोई नहीं

**Q5. Which box is placed adjacent to both box P and box R?**

बॉक्स P और बॉक्स R दोनों के आसन्न कौन-सा बॉक्स रखा गया है?

- (a) Box Q / बॉक्स Q
- (b) Box O / बॉक्स O
- (c) Box M / बॉक्स M
- (d) Box N / बॉक्स N
- (e) None of these/ इनमें से कोई नहीं

**Directions (6-8): Read the given information carefully and answer the related questions:**

दी गई जानकारी को ध्यानपूर्वक पढ़िए और संबंधित प्रश्नों के उत्तर दीजिए:

In a family of eight members, there are three married couples. M is unmarried sister of R and N. N is married to V. S is maternal grandfather of V's daughter. R and V are of same gender. P is daughter-in-law of S's spouse. L is elder to A.

आठ सदस्यों वाले एक परिवार में, तीन विवाहित युगल हैं। M, R और N की अविवाहित बहन है। N, V से विवाहित है। S, V की पुत्री का मटेर्नल ग्रैंडफादर है। R और V एक ही लिंग के हैं। P, S की स्पाउस की पुत्रवधु है। L, A से बड़ा है।

**Q6. What is the relation of L with respect to R?**

R के सन्दर्भ में L का क्या संबंध है?

- (a) Father-in-law / ससुर
- (b) Aunt / आंटी
- (c) Mother / माँ
- (d) Brother-in-law / ब्रदर-इन-लॉ
- (e) None of these / इनमें से कोई नहीं

**Q7. What is the relation of P with respect to A's mother?**

A की माँ के सन्दर्भ में P का क्या संबंध है?

- (a) Mother / माँ
- (b) Sister-in-law / सिस्टर-इन-लॉ
- (c) Mother-in-law / सास
- (d) Sister / बहन
- (e) None of these/ इनमें से कोई नहीं

**Q8. Four among the following five are same in a certain way and related to a group. Who among the following does not belong to the group?**

निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और एक समूह से संबंधित हैं। निम्नलिखित में से कौन सा समूह से संबंधित नहीं है?

- (a) R
- (b) L
- (c) A
- (d) P
- (e) N

**Q9. In the English alphabetical series, if the letters with the place value corresponding to 3 are replaced with symbols and the letters with the place value corresponding to 7 are replaced with digits, then how many letters will be left in the alphabetical series?**

अंग्रेजी वर्णमाला श्रृंखला में, यदि 3 के अनुरूप स्थानीय मान वाले वर्णों को प्रतीकों से बदल दिया जाता है और 7 के अनुरूप स्थानीय मान वाले वर्णों को अंकों से बदल दिया जाता है, तो वर्णमाला श्रृंखला में कितने वर्ण शेष रहेंगे?

- (a) 18
- (b) 15
- (c) 17
- (d) 16
- (e) None of these/ इनमें से कोई नहीं

**Directions (10-14): Read the given information carefully and answer the questions based on it.**

Eight persons purchase a shirt one by one in nine different months from March to November (No one purchase shirt in one of the months). T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. G purchased before June. One person purchased between G and X. Y purchased two months after X. Z purchased the shirt in the month having 31 days. दी गई जानकारी को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए।

आठ व्यक्ति मार्च से नवंबर तक नौ अलग-अलग महीनों में एक-एक करके शर्ट खरीदते हैं (किसी एक महीने में कोई शर्ट नहीं खरीदता)। T, अगस्त में खरीदता है। T और U के बीच दो महीनों का अंतर है। U और V, जिसने W के ठीक बाद खरीदारी की, के बीच पांच महीने का अंतर है। V और W के बीच किसी भी महीने का अंतर नहीं है। G ने जून से पहले खरीदारी की। G और X के बीच एक व्यक्ति ने खरीदारी की। Y ने X के दो महीने बाद खरीदारी की। Z ने 31 दिनों वाले महीने में शर्ट खरीदी।

**Q10. Z purchased in which of the following month?**

Z ने निम्नलिखित में से किस महीने में खरीदी?

- (a) March / मार्च
- (b) May / मई
- (c) August / अगस्त
- (d) October / अक्टूबर
- (e) July / जुलाई

**Q11. In which of the following month, no one purchased the shirt?**

निम्नलिखित में से किस महीने में, किसी ने शर्ट नहीं खरीदी?

- (a) July / जुलाई
- (b) October / अक्टूबर
- (c) June / जून
- (d) March / मार्च
- (e) None of these/ इनमें से कोई नहीं

**Q12. How many months gap between G and T?**

**G और T के बीच कितने महीनों का अंतर है?**

- (a) Three / तीन
- (b) One / एक
- (c) Four / चार
- (d) Two / दो
- (e) None of these/ इनमें से कोई नहीं

**Q13. How many parsons purchased the shirt before Y?**

**Y से पहले कितने व्यक्तियों ने शर्ट खरीदी?**

- (a) Six / छह
- (b) Three / तीन
- (c) Seven/ सात
- (d) Five / पांच
- (e) None of these/ इनमें से कोई नहीं

**Q14. Four among the following five are same in a definite way and forms a group, who among the following does not belong to the group?**

**निम्नलिखित पांच में से चार निश्चित रूप से समान हैं और एक समूह बनाते हैं, निम्नलिखित में से कौन सा उस समूह से संबंधित नहीं है?**

- (a) T
- (b) Z
- (c) W
- (d) X
- (e) Y

**Directions (15-19): Study the given information carefully and answer the related questions:**

**दी गई जानकारी का ध्यानपूर्वक अध्ययन कीजिये और संबंधित प्रश्नों के उत्तर दीजिये:**

In a certain code language/ एक निश्चित कूट भाषा में

'Rural and urban areas' is coded as '## && ββ %%'

'Labour force and survey' is coded as 'ββ @@ €€ ¥¥'

'Four survey in rural' is coded as '## €€ \$\$ @@'

'Urban Labour rate' is coded as 'μμ && @@'

'Rural and urban areas' को '## && ββ %%' के रूप में कूटबद्ध किया जाता है

'Labour force and survey' को 'ββ @@ €€ ¥¥' के रूप में कूटबद्ध किया जाता है

'Four survey in rural' को '## €€ \$\$ @@' के रूप में कूटबद्ध किया जाता है

'Urban Labour rate' को 'μμ && @@' के रूप में कूटबद्ध किया जाता है

**Q15. What is the code for 'Survey'?**

**'Survey' के लिए कूट क्या है?**

- (a) ββ
- (b) €€
- (c) @@
- (d) ##
- (e) None of these/ इनमें से कोई नहीं

**Q16. Which among the following words is coded as 'μμ'?**

**निम्नलिखित में से किस शब्द को 'μμ' के रूप में कूटबद्ध किया जाता है?**

- (a) Urban
- (b) Labour
- (c) Rate
- (d) None of these/ इनमें से कोई नहीं
- (e) Rural

**Q17. If the code for 'four areas' is '@@ %%', then what will be the code for 'in Labour'?**

**यदि 'four areas' के लिए कूट '@@ %%' है, तो 'in Labour' के लिए कूट क्या होगा?**

- (a) @@ %%
- (b) \$\$ @@
- (c) @@ μμ
- (d) ## \$\$
- (e) Can't be determined / निर्धारित नहीं किया जा सकता

**Q18. Which of the following combination is correct?**

**निम्नलिखित में से कौन सा संयोजन सही है?**

- (a) In- €€
- (b) Survey- ββ
- (c) Rural - &&
- (d) Force- ¥¥
- (e) Rate- @@

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**Q19. What is the code for 'Areas'?**

'Areas' के लिए कूट क्या है?

(a) %%

(b) ##

(c) ββ

(d) &&

(e) None of these / इनमें से कोई नहीं

Directions (20-22): In each of the questions below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

नीचे दिए गए प्रत्येक प्रश्न में कुछ कथनों के बाद कुछ निष्कर्ष दिए गए हैं। आपको दिए गए कथनों को सत्य मानना है, भले ही वे सर्वज्ञात तथ्यों से भिन्न प्रतीत होते हों। सभी निष्कर्षों को पढ़िए और फिर तय कीजिये कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की परवाह किए बिना दिए गए कथनों का तार्किक रूप से अनुसरण करता है।

**Q20.**

**Statements:**

All keys are chain.

Only a few button is chain.

Some chain is not pin.

**Conclusions:**

I. Some button being not pin is a possibility.

II. No pin is keys.

**कथन:**

सभी की चेन हैं।

केवल कुछ बटन चेन है।

कुछ चेन पिन नहीं है।

**निष्कर्ष:**

I. कुछ बटन के पिन न होने की संभावना है।

II. कोई पिन की नहीं है।

(a) If only conclusion I follows

यदि केवल निष्कर्ष I अनुसरण करता है

(b) If only conclusion II follows

यदि केवल निष्कर्ष II अनुसरण करता है

(c) If either conclusion I or II follows

यदि या तो निष्कर्ष I या II अनुसरण करता है

(d) If neither conclusion I nor II follows

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है

(e) If both conclusions I and II follow

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं

**Q21. Statements:**

Only check is error.

Some correct is check.

All correct is solve.

**Conclusions:**

I. All check being solve is a possibility.

II. Some solve can be error.

**कथन:**

केवल चेक एरर है।

कुछ करेक्ट चेक है।

सभी करेक्ट सॉल्व है।

**निष्कर्ष:**

I. सभी चेक के सॉल्व होने की संभावना है।

II. कुछ सॉल्व एरर हो सकते हैं।

(a) If only conclusion I follows

यदि केवल निष्कर्ष I अनुसरण करता है

(b) If only conclusion II follows

यदि केवल निष्कर्ष II अनुसरण करता है

(c) If either conclusion I or II follows

यदि या तो निष्कर्ष I या II अनुसरण करता है

(d) If neither conclusion I nor II follows

यदि न तो निष्कर्ष I और न ही II अनुसरण करता है

(e) If both conclusions I and II follow

यदि निष्कर्ष I और II दोनों अनुसरण करते हैं

**Q22.**

**Statements:**

All product is cost.

Only a few shop is item.

No product is shop.

**Conclusions:**

I. Some cost is not shop.

II. Some shop is not item.

**कथन:**

सभी प्रोडक्ट कॉस्ट हैं।

केवल कुछ शॉप आइटम है।

कोई प्रोडक्ट शॉप नहीं है।

**निष्कर्ष:**

I. कुछ कॉस्ट शॉप नहीं है।

II. कुछ शॉप आइटम नहीं है।

(a) If only conclusion I follows

यदि केवल निष्कर्ष I अनुसरण करता है

- (b) If only conclusion II follows  
यदि केवल निष्कर्ष II अनुसरण करता है
- (c) If either conclusion I or II follows  
यदि या तो निष्कर्ष I या II अनुसरण करता है
- (d) If neither conclusion I nor II follows  
यदि न तो निष्कर्ष I और न ही II अनुसरण करता है
- (e) If both conclusions I and II follow  
यदि निष्कर्ष I और II दोनों अनुसरण करते हैं

**Q23.** In the word 'SPOKESPERSON', if all the vowels are interchanged with their 3<sup>rd</sup> preceding letter, then find the difference between number of vowels and number of consonants in the word?

शब्द 'SPOKESPERSON' में, यदि सभी स्वरों को उनके तीसरे पूर्ववर्ती वर्ण से बदल दिया जाता है, तो शब्द में स्वरों की संख्या और व्यंजन की संख्या के बीच का अंतर ज्ञात कीजिए।

- (a) Eight / आठ
- (b) Six / छह
- (c) Two / दो
- (d) Four / चार
- (e) None of these / इनमें से कोई नहीं

**Directions (24-28): Study the given information carefully and answer the related questions:**  
दी गई जानकारी का ध्यानपूर्वक अध्ययन कीजिये और संबंधित प्रश्नों के उत्तर दीजिये:

Eight persons A, C, D, F, G, H, J and K live (but not necessarily in the given order) in a 24-floor building but only on the floors which are multiple of 3. (For ex- 3, 6, 9 and so on). Floors are arranged from bottom to top in increasing order.

G lives on the floor which is a multiple of 7. Three persons live between G and J. H lives below J. Sum of floors of J and H is equal to the floor of F. D lives just below F. C lives on the floor which is a multiple of 6 but below A.

आठ व्यक्ति A, C, D, F, G, H, J और K एक 24-मंजिला इमारत में रहते हैं (लेकिन आवश्यक नहीं कि इसी क्रम में हो) लेकिन केवल उन मंजिलों पर जो 3 के गुणज हैं। (उदाहरण के लिए- 3, 6, 9 और इसी प्रकार आगे)। मंजिलों को नीचे से ऊपर तक बढ़ते क्रम में व्यवस्थित किया जाता है।

G, जो 7 का गुणज है, उस मंजिल पर रहता है। G और J के बीच तीन व्यक्ति रहते हैं। H, J के नीचे रहता है। J और H के मंजिलों का योग, F की मंजिल के बराबर है। D, F के ठीक नीचे रहता है। C, जो 6 का गुणज है लेकिन A से नीचे, मंजिल पर रहता है।

**Q24.** How many persons live between K and D?  
K और D के बीच में कितने व्यक्ति रहते हैं?

- (a) Four / चार
- (b) Two / दो
- (c) One / एक
- (d) Five / पांच
- (e) None of these / इनमें से कोई नहीं

**Q25.** Who lives on 18<sup>th</sup> floor?  
18वीं मंजिल पर कौन रहता है?

- (a) K
- (b) A
- (c) D
- (d) C
- (e) None of these / इनमें से कोई नहीं

**Q26.** What is the difference between the floors of A and F?

A और F की मंजिलों में कितना अंतर है?

- (a) 12
- (b) 6
- (c) 9
- (d) 18
- (e) None of these / इनमें से कोई नहीं

**Q27.** Which of the following statement is not correct?

निम्नलिखित में से कौन सा कथन सही नहीं है?

- (a) A lives on the topmost floor / A सबसे ऊपरी मंजिल पर रहता है
- (b) K lives below H / K, H के नीचे रहता है
- (c) No one lives between C and F / C और F के बीच कोई नहीं रहता है
- (d) H lives on 6<sup>th</sup> floor / H, छठी मंजिल पर रहता है
- (e) F lives on an even numbered floor / F, एक सम संख्या वाली मंजिल पर रहता है

**Q28.** If A is related to C, F is related to J, in the same manner, \_ is related to H?

यदि A, C से संबंधित है, F, J से संबंधित है, उसी प्रकार \_, H से संबंधित है?

- (a) C
- (b) D
- (c) J
- (d) K
- (e) None of these / इनमें से कोई नहीं



**Directions (29-32):** Read the given series carefully and answer the questions based on it.  
दी गई श्रृंखला को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए।

4 7 6 2 9 8 6 4 3 7 9 8 5 2 9 6 4 7 3 2 9 8 6 3 4 9 7 5 4 2 6

**Q29.** How many 9s are there in the series which are immediately preceded by an even digit?

श्रृंखला में ऐसे कितने 9 हैं जिनके ठीक पहले एक सम अंक है?

- (a) One / एक  
(b) Five / पांच  
(c) Three / तीन  
(d) Four / चार  
(e) None of these / इनमें से कोई नहीं

**Q30.** If all the prime digits are removed from the series, then find the 10<sup>th</sup> digit from right end in the new series?

यदि श्रृंखला से सभी अभाज्य अंक हटा दिए जाएं, तो नई श्रृंखला में दायें छोर से 10वां अंक ज्ञात कीजिए।

- (a) 9  
(b) 6  
(c) 4  
(d) 8  
(e) None of these / इनमें से कोई नहीं

**Q31.** How many 3's multiple digits are there in the series which are immediately followed by an odd number?

श्रृंखला में ऐसे कितने 3 के गुणज अंक हैं जिनके ठीक बाद एक विषम संख्या है?

- (a) None / कोई नहीं  
(b) One / एक  
(c) Three / तीन  
(d) Two / दो  
(e) None of these / इनमें से कोई नहीं

**Q32.** Which of the following digit will be 7<sup>th</sup> to the right of 11<sup>th</sup> digit from left end in the series?

निम्नलिखित में से कौन सा अंक श्रृंखला में बायें छोर से 11वें अंक के दायें से 7वां होगा?

- (a) 9  
(b) 6  
(c) 3  
(d) 7  
(e) None of these / इनमें से कोई नहीं

**Directions (33-35):** In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Assuming the given statements are true, then find out which of the given conclusions is/are definitely true.

इन प्रश्नों में कथनों में विभिन्न तत्वों के बीच संबंध को दर्शाया गया है। इन कथनों के बाद दो निष्कर्ष दिए गए हैं। दिए गए कथनों को सत्य मानते हुए, ज्ञात कीजिए कि दिए गए निष्कर्षों में से कौन-सा/से निश्चित रूप से सत्य है/हैं।

**Q33.**

**Statement/कथन:**  $34 = 67 \leq 12 \leq 19 > 51, 42 > 55 \geq 31 = 19$

**Conclusion / निष्कर्ष:**

I.  $55 > 51$

II.  $31 \geq 67$

- (a) if only I is true/ यदि केवल I सत्य है  
(b) if only II is true/ यदि केवल II सत्य है  
(c) if either I or II is true/ यदि या तो I या II सत्य है  
(d) if neither I nor II is true/ यदि न तो I और न ही II सत्य है  
(e) if both I and II are true/ यदि I और II दोनों सत्य हैं

**Q34.**

**Statement/ कथन:**  $DD > RR > UU = LL \leq FF \leq SS > MM$

**Conclusion / निष्कर्ष:**

I.  $RR > SS$

II.  $UU < SS$

- (a) if only I is true/ यदि केवल I सत्य है  
(b) if only II is true/ यदि केवल II सत्य है  
(c) if either I or II is true/ यदि या तो I या II सत्य है  
(d) if neither I nor II is true/ यदि न तो I और न ही II सत्य है  
(e) if both I and II are true/ यदि I और II दोनों सत्य हैं

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Q35.

Statement/ कथन:  $B > X > G = A \geq M = V, D < Q \leq V$

Conclusion / निष्कर्ष:

I.  $G = Q$

II.  $Q < A$

- (a) if only I is true/ यदि केवल I सत्य है  
(b) if only II is true/ यदि केवल II सत्य है  
(c) if either I or II is true/ यदि या तो I या II सत्य है  
(d) if neither I nor II is true/ यदि न तो I और न ही II सत्य है  
(e) if both I and II are true/ यदि I और II दोनों सत्य हैं

**Directions (36-40): Read the given information carefully and answer the questions based on it:**  
दी गई जानकारी को ध्यानपूर्वक पढ़िए और उस पर आधारित प्रश्नों के उत्तर दीजिए:

Six persons A, B, C, D, E and F (but not in the same order as given) work in a company on different designations like Team leader, Manager, Sr. manager, Product head, Director and CEO. The designations are given in increasing order of their seniority i.e., Team leader is junior most designation and CEO is senior most designation. All the persons also like different colors.

B is three designations senior to the one who likes green. More than two persons work between B and E. C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Manger does not like Grey.

छह व्यक्ति A, B, C, D, E और F (लेकिन दिए गए समान क्रम में नहीं) एक कंपनी में टीम लीडर, मैनेजर, सीनियर मैनेजर, प्रोडक्ट हेड, डायरेक्टर और सीईओ जैसे विभिन्न पदों पर काम करते हैं। पद उनकी वरिष्ठता के बढ़ते क्रम में दिए गए हैं, यानी टीम लीडर सबसे कनिष्ठ पद है और सीईओ सबसे वरिष्ठ पद है। सभी व्यक्ति विभिन्न रंग भी पसंद करते हैं।

B, हरा रंग पसंद करने वाले व्यक्ति से तीन पद वरिष्ठ है। B और E के बीच दो से अधिक व्यक्ति कार्य करते हैं। C को पीला रंग पसंद है और वह F, जो प्रोडक्ट हेड से कनिष्ठ नहीं है, से ठीक कनिष्ठ है। D न तो E से ठीक कनिष्ठ और न ही ठीक वरिष्ठ है। D को हरा और लाल रंग पसंद नहीं है। वह व्यक्ति जिसे नीला रंग पसंद है, वह लाल रंग पसंद करने वाले से कनिष्ठ है और नारंगी रंग पसंद करने वाले से वरिष्ठ है। मैनेजर को स्लेटी रंग पसंद नहीं है।

Q36. Which of the following combination is correct?

निम्नलिखित में से कौन सा संयोजन सही है?

- (a) Product head- Blue / प्रोडक्ट हेड - नीला  
(b) E- Orange / E- नारंगी  
(c) CEO- Grey / सीईओ - स्लेटी  
(d) Manger- A / मैनेजर -A  
(e) All are correct / सभी सही हैं

Q37. How many persons work between A and D?  
A और D के बीच कितने व्यक्ति कार्य करते हैं?

- (a) Four / चार  
(b) Two / दो  
(c) One / एक  
(d) Three / तीन  
(e) None / कोई नहीं

Q38. Who is two designations junior to C?  
C से दो पद कनिष्ठ कौन है?

- (a) A  
(b) E  
(c) B  
(d) The one who likes grey / वह जो स्लेटी रंग पसंद करता है  
(e) None of these / इनमें से कोई नहीं

Q39. F likes which color?

F को कौन सा रंग पसंद है?

- (a) Grey / स्लेटी  
(b) Orange / नारंगी  
(c) Red / लाल  
(d) Green / हरा  
(e) Blue / नीला

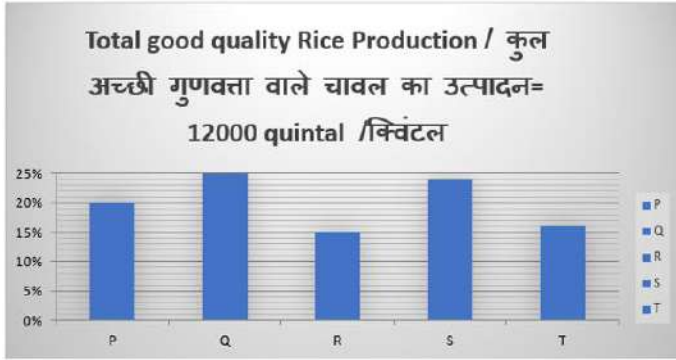
Q40. Which of the following statement is correct about D?

निम्नलिखित में से कौन सा कथन D के बारे में सही है?

- (a) D is junior to B / D, B से कनिष्ठ है  
(b) D likes blue / D को नीला रंग पसंद है  
(c) D is CEO / D सीईओ है  
(d) D is not senior to Product head / D प्रोडक्ट हेड से वरिष्ठ नहीं है  
(e) Three persons are senior to D / तीन व्यक्ति D से वरिष्ठ हैं

**Directions (41-45):** The bar graph given below shows the percentage distribution of good quality rice produced by five farmers (P, Q, R, S and T). Read the data carefully and answer the questions.

नीचे दिया गया बार ग्राफ पांच किसानों (P, Q, R, S और T) द्वारा उत्पादित अच्छी गुणवत्ता वाले चावल के प्रतिशत वितरण को दर्शाता है। डेटा को ध्यान से पढ़िए और प्रश्नों के उत्तर दीजिये।



**Total rice produced by each farmer = (Good quality rice produced + bad quality rice produced)**  
 प्रत्येक किसान द्वारा उत्पादित कुल चावल = (अच्छी गुणवत्ता वाले चावल का उत्पादन + खराब गुणवत्ता वाले चावल का उत्पादन)

**Q41. If P and T produced 20% and 25% bad quality rice respectively out of their total Production, then find the difference between total rice produced by these two farmers?**

यदि P और T ने अपने कुल उत्पादन में से क्रमशः 20% और 25% खराब गुणवत्ता वाले चावल का उत्पादन किया, तो इन दोनों किसानों द्वारा उत्पादित कुल चावल के बीच का अंतर ज्ञात कीजिए।

- (a) 410 quintals / 410 क्विंटल
- (b) 400 quintals / 400 क्विंटल
- (c) 440 quintals / 440 क्विंटल
- (d) 420 quintals / 420 क्विंटल
- (e) 480 quintals / 480 क्विंटल

**Q42. Find the average of good quality of rice produced by P and T together?**

P और T द्वारा एक साथ उत्पादित चावल की अच्छी गुणवत्ता का औसत ज्ञात कीजिए।

- (a) 1960 quintals / 1960 क्विंटल
- (b) 2060 quintals / 2060 क्विंटल
- (c) 2160 quintals / 2160 क्विंटल
- (d) 2180 quintals / 2180 क्विंटल
- (e) None of these / इनमें से कोई नहीं

**Q43. If Q and R produced 96% and 90% good quality rice respectively out of their total production, then find bad quality rice produced by R is what percent more or less than the bad quality rice Produced by Q?**

यदि Q और R ने अपने कुल उत्पादन में से क्रमशः 96% और 90% अच्छी गुणवत्ता वाले चावल का उत्पादन किया, तो ज्ञात कीजिए कि R द्वारा उत्पादित खराब गुणवत्ता वाले चावल, Q द्वारा उत्पादित खराब गुणवत्ता वाले चावल से कितने प्रतिशत अधिक या कम है?

- (a) 60%
- (b) 50%
- (c) 40%
- (d) 45%
- (e) 30%

**Q44. If the ratio of good quality rice and bad quality rice produced by S is 9 : 2, then find ratio of bad quality rice produced by S to good quality rice produced by R?**

यदि S द्वारा उत्पादित अच्छी गुणवत्ता वाले चावल और खराब गुणवत्ता वाले चावल का अनुपात 9:2 है, तो S द्वारा उत्पादित खराब गुणवत्ता वाले चावल का R द्वारा उत्पादित अच्छी गुणवत्ता वाले चावल से अनुपात ज्ञात कीजिए।

- (a) 16 : 55
- (b) 16 : 35
- (c) 16 : 25
- (d) 16 : 65
- (e) 16 : 45

**Q45. If total good quality rice produced by all the five farmers is 600% of total bad quality rice produced by these five farmers together, then find good quality rice produced by Q is what percent of the total bad quality rice produced by these five farmers?**

यदि सभी पांच किसानों द्वारा उत्पादित कुल अच्छी गुणवत्ता वाला चावल, इन पांच किसानों द्वारा उत्पादित कुल खराब गुणवत्ता वाले चावल का 600% है, तो Q द्वारा उत्पादित अच्छी गुणवत्ता वाले चावल, इन पांच किसानों द्वारा उत्पादित कुल खराब गुणवत्ता वाले चावल का कितना प्रतिशत है?

- (a) 80%
- (b) 150%
- (c) 120%
- (d) 160%
- (e) 200%



**Directions (46-50): Solve the given two equations and mark the correct option based on your answer.**

दिए गए दो समीकरणों को हल कीजिए और अपने उत्तर के आधार पर सही विकल्प का चयन कीजिए।

**Q46.**

I.  $x^2 + 18x + 77 = 0$

II.  $y^2 + 13y + 42 = 0$

- (a) if/यदि  $x > y$   
(b) if/यदि  $x \geq y$   
(c) if/यदि  $x < y$   
(d) if/यदि  $x \leq y$   
(e) if/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ . / या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Q47.**

I.  $3x^2 - x - 4 = 0$

II.  $3y^2 + 16y + 13 = 0$

- (a) if/यदि  $x > y$   
(b) if/यदि  $x \geq y$   
(c) if/यदि  $x < y$   
(d) if/यदि  $x \leq y$   
(e) if/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ . / या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Q48.**

I.  $x^2 - x - 6 = 0$

II.  $y^2 = 4$

- (a) if/यदि  $x > y$   
(b) if/यदि  $x \geq y$   
(c) if/यदि  $x < y$   
(d) if/यदि  $x \leq y$   
(e) if/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ . / या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Q49.**

I.  $x^3 + 2744 = 0$

II.  $2y^2 - 392 = 0$

- (a) if/यदि  $x > y$   
(b) if/यदि  $x \geq y$   
(c) if/यदि  $x < y$   
(d) if/यदि  $x \leq y$

(e) if/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ . / या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Q50.**

I.  $x^2 - 11x + 30 = 0$

II.  $y^2 - 9y + 20 = 0$

- (a) if/यदि  $x > y$   
(b) if/यदि  $x \geq y$   
(c) if/यदि  $x < y$   
(d) if/यदि  $x \leq y$   
(e) if/यदि  $x = y$  or no relation can be established between  $x$  and  $y$ . / या  $x$  और  $y$  के बीच कोई संबंध स्थापित नहीं किया जा सकता है।

**Q51. Side of a square is two times of height of a cone, which having radius 12 cm and volume 4224 cm<sup>3</sup>. find perimeter of the square?**

एक वर्ग की भुजा, एक शंकु की ऊंचाई का दो गुना है, जिसकी त्रिज्या 12 सेमी और आयतन 4224 घन सेमी है। वर्ग का परिमाण ज्ञात कीजिए।

- (a) 128 cm / 128 सेमी  
(b) 224 cm / 224 सेमी  
(c) 112 cm / 112 सेमी  
(d) 208 cm / 208 सेमी  
(e) None of these / इनमें से कोई नहीं

**Q52. The ratio of liquid A and liquid B in a mixture is 2 : 3 respectively. If 30 liters of the mixture is taken out and completely replaced with another liquid C, then the ratio of liquid B and liquid C in the final mixture becomes 6:5 respectively. What is the quantity of liquid B in the initial mixture?**

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एक मिश्रण में तरल A और तरल B का अनुपात क्रमशः 2:3 है। यदि मिश्रण का 30 लीटर निकाल लिया जाता है और पूरी तरह से दूसरे तरल C से बदल दिया जाता है, तो अंतिम मिश्रण में तरल B और तरल C का अनुपात क्रमशः 6:5 हो जाता है। प्रारंभिक मिश्रण में तरल B की मात्रा कितनी है?

- (a) 54 lit / 54 लीटर  
 (b) 36 lit / 36 लीटर  
 (c) 50 lit / 50 लीटर  
 (d) 46 lit / 46 लीटर  
 (e) None of these / इनमें से कोई नहीं

**Q53.** Veer invested Rs. X in a scheme P on SI at the rate of 8% p.a. for 3 years and then he invested total amount received from scheme P in scheme Q on CI at the rate of 10% p.a. for 2 years. If Veer received total interest of Rs.25020 from scheme P & Q together, then find 'X'?

वीर ने 8% प्रति वर्ष की दर से 3 वर्ष के लिए एक योजना P में X रुपये को साधारण ब्याज पर निवेश किया और फिर उसने योजना P से प्राप्त कुल राशि को 10% प्रति वर्ष की दर से 2 वर्ष के लिए चक्रवृद्धि ब्याज पर योजना Q में निवेश किया। यदि वीर को योजना P और Q से मिलाकर कुल 25020 रुपये का ब्याज मिलता है, तो 'X' ज्ञात कीजिए।

- (a) 48000  
 (b) 42000  
 (c) 52000  
 (d) 50000  
 (e) 58000

**Q54.** The price of sugar increases by 20% and the consumption of a family decrease by  $16\frac{2}{3}\%$ . Find the percentage change in the expenditure of family?

चीनी की कीमत में 20% की वृद्धि होती है और एक परिवार की खपत में  $16\frac{2}{3}\%$  की कमी होती है। परिवार के व्यय में प्रतिशत परिवर्तन ज्ञात कीजिये।

- (a) 2%  
 (b) 0%  
 (c) 3%  
 (d) 2.5%  
 (e) 1.5%

**Q55.** A and B working together can complete a piece of work in  $2\frac{2}{5}$  days. If B is 50% more

efficient than A, then find the time taken by B alone to complete the same work.

A और B एक साथ कार्य करते हुए एक कार्य को  $2\frac{2}{5}$  दिनों में पूरा कर सकते हैं। यदि B, A से 50% अधिक कुशल है, तो B द्वारा अकेले उसी कार्य को पूरा करने में लिया गया समय ज्ञात कीजिए।

- (a) 7 days / 7 दिन  
 (b) 4 days / 4 दिन  
 (c) 9 days / 9 दिन  
 (d) 11 days / 11 दिन  
 (e) 3 days / 3 दिन

Directions (56-60): What approximate value should come in place of question mark (?) in following questions.

निम्नलिखित प्रश्नों में प्रश्नचिन्ह (?) के स्थान पर लगभग क्या मान आना चाहिए।

**Q56.**  $17.97\%$  of 649.90 -  $8.02\%$  of 1149.99 = ?<sup>2</sup>

- (a) 4  
 (b) 5  
 (c) 3  
 (d) 6  
 (e) 7

**Q57.**  $\frac{?-7.97}{12.04+8.02} \times (5.997)^2 = 72.01$

- (a) 48  
 (b) 36  
 (c) 54  
 (d) 32  
 (e) 40

**Q58.**  $30.08\%$  of  $\frac{4}{7}$  of  $\frac{1}{8}$  of 419.91 = ?

- (a) 6  
 (b) 18  
 (c) 15  
 (d) 12  
 (e) 9

**Q59.**  $719.97 \div 80.02 \div 60.07 \times 119.97 = ?$

- (a) 14  
 (b) 20  
 (c) 18  
 (d) 10  
 (e) 24

Q60.  $899.9 \times 25.02 \div 35.99 = (? + 17.03)^2$

- (a) 10  
(b) 5  
(c) 18  
(d) 12  
(e) 8

Directions (61-65): What will come in the place of question (?) mark in following number series:

निम्नलिखित संख्या श्रृंखला में प्रश्नचिह्न (?) के स्थान पर क्या आएगा:

Q61. 42, 212, 334, 416, 466, ?

- (a) 492  
(b) 496  
(c) 494  
(d) 498  
(e) 502

Q62. 162, 54, 36, ?, 48, 80

- (a) 33  
(b) 42  
(c) 24  
(d) 30  
(e) 36

Q63. 31, 58, 112, 193, 301, ?

- (a) 412  
(b) 436  
(c) 424  
(d) 484  
(e) 456

Q64. 4, 2, 2, 3, ?, 15

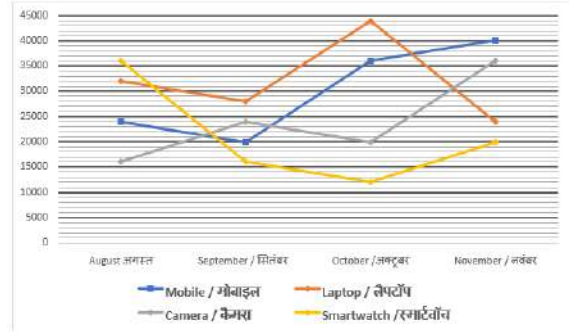
- (a) 5  
(b) 4.5  
(c) 6  
(d) 6.5  
(e) 9

Q65. 40, 120, ?, 150, 25, 175

- (a) 30  
(b) 24  
(c) 40  
(d) 60  
(e) 20

Directions (66-70): The line graph given below shows total number four different gadgets sold by a shop in four consecutive months. Study the chart carefully and answer the questions based on them.

नीचे दिया गया लाइन ग्राफ एक दुकान द्वारा चार क्रमागत महीनों में बेचे गए कुल चार अलग-अलग गैजेट दर्शाता है। चार्ट का ध्यानपूर्वक अध्ययन कीजिये और उन पर आधारित प्रश्नों के उत्तर दीजिये।



Q66. Number of cameras sold in October is what percent of number of mobiles sold in August? अक्टूबर में बेचे गए कैमरों की संख्या, अगस्त में बेचे गए मोबाइलों की संख्या का कितना प्रतिशत है?

- (a)  $85\frac{1}{3}\%$   
(b)  $87\frac{2}{3}\%$   
(c)  $83\frac{1}{3}\%$   
(d)  $84\frac{1}{3}\%$   
(e)  $80\frac{1}{3}\%$

Q67. Which gadget has maximum number of sales in September month?

सितंबर महीने में किस गैजेट की सर्वाधिक बिक्री हुई?

- (a) Mobile / मोबाइल  
(b) Laptop / लैपटॉप  
(c) Camera / कैमरा  
(d) Smartwatch / स्मार्टवॉच  
(e) Laptop and Camera / लैपटॉप और कैमरा

Q68. Number of Camera and Laptops sold in November is what percent of total sales of all four gadgets in August?

नवंबर में बेचे गए कैमरा और लैपटॉप की संख्या, अगस्त में सभी चार गैजेट्स की कुल बिक्री का कितना प्रतिशत है?

- (a) 45.45%  
(b) 50.50%  
(c) 60.75%  
(d) 55.55%  
(e) 65.50%

**Q69. Find out the average of number of smartwatches sold in all the four months?**

सभी चार महीनों में बेची गई स्मार्टवॉच की औसत संख्या ज्ञात कीजिए।

- (a) 21000
- (b) 22000
- (c) 25000
- (d) 20000
- (e) 19000

**Q70. Find out the ratio between number of mobiles sold in September to the number camera sold in August?**

सितंबर में बेचे गए मोबाइलों की संख्या का अगस्त में बेचे गए कैमरे की संख्या से अनुपात ज्ञात कीजिए।

- (a) 3:5
- (b) 5:4
- (c) 3:4
- (d) 4:3
- (e) 3:2

**Q71. Find the speed of stream, if a boat covers**

**45 km in downstream in  $7\frac{1}{2}$  hours and ratio of upstream and downstream speed of boat is 2:3 respectively.**

धारा की गति ज्ञात कीजिए, यदि एक नाव धारा के अनुकूल 45

किमी की दूरी  $7\frac{1}{2}$  घंटे में तय करती है और नाव की धारा के प्रतिकूल और धारा के अनुकूल गति का अनुपात क्रमशः 2:3 है।

- (a) 2km/hr / 2 किमी/घंटा
- (b) 1.5km/hr / 1.5 किमी/घंटा
- (c) 3km/hr / 3 किमी/घंटा
- (d) 1km/hr / 1 किमी/घंटा
- (e) 3.5km/hr / 3.5 किमी/घंटा

**Q72. A Pipe can fill a tank in 2T hours. After one-fourth tank is filled, four more similar pipes are opened in the tank, find total time required to fill the tank completely?**

एक पाइप एक टैंक को 2T घंटे में भर सकता है। एक चौथाई टैंक भरने के बाद, चार और समान पाइप टैंक में खोले जाते हैं, टैंक को पूरी तरह से भरने के लिए आवश्यक कुल समय ज्ञात कीजिये।

- (a) 0.8T
- (b) 0.5T
- (c) 0.6T
- (d) 0.7T
- (e) 0.9T

**Q73. A 950 metres long train-A crosses another train-B running in same direction in 16 seconds. If the ratio of speed of these trains is in the ratio 17:13 respectively, find out the length of train B?**

एक 950 मीटर लंबी ट्रेन-A समान दिशा में चल रही दूसरी ट्रेन-B को 16 सेकंड में पार करती है। यदि इन ट्रेनों की गति का अनुपात क्रमशः 17:13 है, तो ट्रेन B की लंबाई ज्ञात कीजिए।

- (a) 1000 meter / 1000 मीटर
- (b) 1900 meter / 1900 मीटर
- (c) 1600 meter / 1600 मीटर
- (d) 1100 meter / 1100 मीटर
- (e) Can't be determined / निर्धारित नहीं किया जा सकता

**Q74. The ratio of present age of Neha to Sarita's is 3:4 and x years ago the ratio was (x-5):(x+6) respectively. Find the present age of Sarita (In years)?**

नेहा की वर्तमान आयु का सरिता की वर्तमान आयु से अनुपात 3:4 है और x वर्ष पहले, अनुपात क्रमशः (x-5):(x+6) था। तो, सरिता की वर्तमान आयु ज्ञात कीजिए। (वर्षों में)

- (a) 16
- (b) 24
- (c) 32
- (d) 12
- (e) Can't be determined / निर्धारित नहीं किया जा सकता

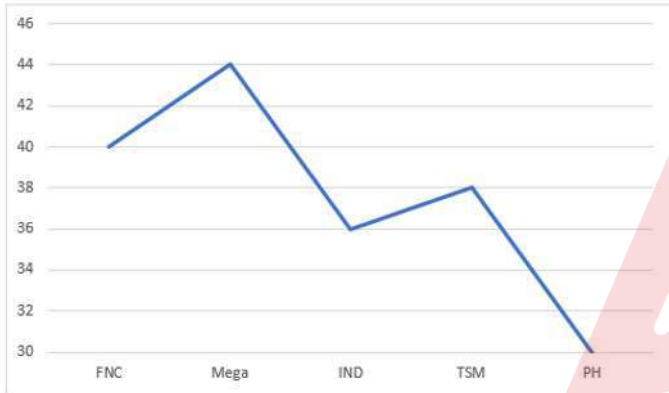
**Q75. A car covered a certain distance at a certain speed in a fixed time. If car had moved 9 kmph slower, it would have taken 2 hours more and if it had moved 5 kmph faster, it would have taken 48 min less. Find the distance covered by car?**

एक कार एक निश्चित समय में एक निश्चित गति से एक निश्चित दूरी तय करती है। यदि कार 9 किमी प्रति घंटे धीमी गति से चलती है, तो उसे 2 घंटे अधिक लगते और यदि वह 5 किमी प्रति घंटे की तेज़ गति से चलती है, तो उसे 48 मिनट कम समय लगता। कार द्वारा तय की गई दूरी ज्ञात कीजिए।

- (a) 300 km / 300 किमी
- (b) 360 km / 360 किमी
- (c) 320 km / 320 किमी
- (d) 400 km / 400 किमी
- (e) 450 km / 450 किमी

Directions (76-80): Line graph given below shows percentage of players who play PUBG on 'Android' device out of total PUBG players in five different teams and table shows difference between players who play PUBG on 'OS' device and 'Android' device in these five teams. Each player in each team either play PUBG on OS' device only or on 'Android' device only.

नीचे दिया गया लाइन ग्राफ उन खिलाड़ियों का प्रतिशत दर्शाता है जो पाँच अलग-अलग टीमों में कुल PUBG खिलाड़ियों में से 'एंड्राइड' डिवाइस पर PUBG खेलते हैं और तालिका इन पाँच टीमों में 'OS' डिवाइस और 'एंड्राइड' डिवाइस पर PUBG खेलने वाले खिलाड़ियों के बीच अंतर दर्शाता है। प्रत्येक टीम में प्रत्येक खिलाड़ी या तो 'OS' डिवाइस या केवल 'एंड्राइड' डिवाइस पर PUBG खेलते हैं।



Teams / टीम	Difference between players who play PUBG on 'OS' device and who play on 'Android' device / 'OS' डिवाइस और 'एंड्राइड' डिवाइस पर PUBG खेलने वाले खिलाड़ियों के बीच अंतर
FNC	200
Mega	90
IND	336
TSM	360
PH	720

Q76. Find difference between total number of players in the team FNC and that of in PH?

टीम FNC और PH में खिलाड़ियों की कुल संख्या के बीच अंतर ज्ञात कीजिए।

- (a) 800
- (b) 400
- (c) 600
- (d) 1000
- (e) 1200

Q77. Total number of players who play PUBG on 'OS' device in Mega are what percent less than total number of players who play PUBG on 'OS' device in IND?

Mega में 'OS' डिवाइस पर PUBG खेलने वाले खिलाड़ियों की कुल संख्या, IND में 'OS' डिवाइस पर PUBG खेलने वाले खिलाड़ियों की कुल संख्या से कितने प्रतिशत कम है?

- (a)  $48\frac{5}{16}\%$
- (b)  $45\frac{5}{16}\%$
- (c)  $42\frac{5}{16}\%$
- (d)  $40\frac{5}{16}\%$
- (e) None of these / इनमें से कोई नहीं

Q78. Find average number of players in team IND, TSM & PH?

टीम IND, TSM और PH में खिलाड़ियों की औसत संख्या ज्ञात कीजिए।

- (a) 1400
- (b) 1600
- (c) 1800
- (d) 1500
- (e) 1700

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**Q79. Find the ratio of players who play PUBG on 'OS' device in FNC to that of in PH?**

FNC में 'OS' डिवाइस पर PUBG खेलने वाले खिलाड़ियों का PH में 'OS' डिवाइस पर PUBG खेलने वाले खिलाड़ियों से अनुपात ज्ञात कीजिए।

- (a) 10 : 23
- (b) 10 : 19
- (c) 10 : 17
- (d) 10 : 13
- (e) 10 : 21

**Q80. Total players in FNC & Mega together are what percent more than total players in TSM?**

FNC और Mega में एक साथ कुल खिलाड़ी, TSM में कुल खिलाड़ियों की तुलना में कितना प्रतिशत अधिक है?

- (a)  $12\frac{1}{2}\%$
- (b) 14%
- (c)  $16\frac{2}{3}\%$
- (d)  $16\frac{1}{3}\%$
- (e) 15%

## Solutions

**S1. Ans.(d)**

**Sol.**

Prime number of boxes are placed above box Q. It means either 2, 3 or 5 boxes are placed above box Q. Box N is placed three places below box Q. There are two possible cases.

Box	
Case 1	Case 2
Q	
	Q
N	
	N

Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Case 1 will eliminate here because, box P cannot be placed above box O.

Box	
Case 1	Case 2
O	P
	O
Q	
	Q
M	
N	M
	N

Box R is placed above box S. Now, after applying all conditions, the final box arrangement is:

Box
P
O
R
Q
S
M
N

Box R is 3<sup>rd</sup> from top in the shelf.

**S2. Ans.(c)**

**Sol.**

Prime number of boxes are placed above box Q. It means either 2, 3 or 5 boxes are placed above box Q. Box N is placed three places below box Q. There are two possible cases.

Box	
Case 1	Case 2
Q	
	Q
N	
	N

Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Case 1 will eliminate here because, box P cannot be placed above box O.

Box	
Case 1	Case 2
⊖	P
	O
Q	
	Q
M	
N	M
	N

Box R is placed above box S. Now, after applying all conditions, the final box arrangement is:

Box
P
O
R
Q
S
M
N

Box S is placed three places below box O.

**S3. Ans.(d)**

**Sol.**

Prime number of boxes are placed above box Q. It means either 2, 3 or 5 boxes are placed above box Q. Box N is placed three places below box Q. There are two possible cases.

Box	
Case 1	Case 2
Q	
	Q
N	
	N

Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Case 1 will eliminate here because, box P cannot be placed above box O.

Box	
Case 1	Case 2
⊖	P
	O
Q	
	Q
M	
N	M
	N

Box R is placed above box S. Now, after applying all conditions, the final box arrangement is:

Box
P
O
R
Q
S
M
N

Box Q is placed exactly in the middle of the shelf.

**S4. Ans.(a)**

**Sol.**

Prime number of boxes are placed above box Q. It means either 2, 3 or 5 boxes are placed above box Q. Box N is placed three places below box Q. There are two possible cases.

Box	
Case 1	Case 2
Q	
	Q
N	
	N

Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Case 1 will eliminate here because, box P cannot be placed above box O.

Box	
Case 1	Case 2
⊖	P
	O
Q	
	Q
M	
N	M
	N

Box R is placed above box S. Now, after applying all conditions, the final box arrangement is:

Box
P
O
R
Q
S
M
N

Three boxes are placed between box S and Box P.

**S5. Ans.(b)**

**Sol.**

Prime number of boxes are placed above box Q. It means either 2, 3 or 5 boxes are placed above box Q. Box N is placed three places below box Q. There are two possible cases.

Box	
Case 1	Case 2
Q	
	Q
N	
	N

Box N is placed adjacent to box M. Box O is placed four places away from box M. Box P is placed above box O. Case 1 will eliminate here because, box P cannot be placed above box O.

Box	
Case 1	Case 2
<del>O</del>	P
<del>Q</del>	O
	Q
<del>M</del>	
<del>N</del>	M
	N

Box R is placed above box S. Now, after applying all conditions, the final box arrangement is:

Box
P
O
R
Q
S
M
N

Box O is placed adjacent to both box P and box R.

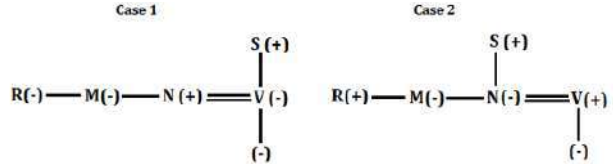
**S6. Ans.(c)**

**Sol.**

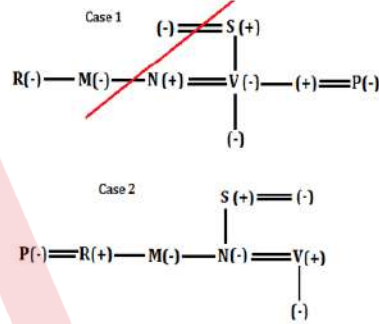
M is unmarried sister of R and N. N is married to V.

$$R - M(-) - N = V$$

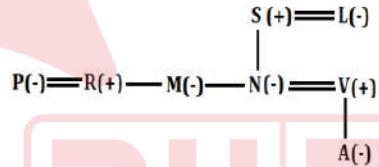
S is maternal grandfather of V's daughter. R and V are of same gender. There will be two possible cases where, S is the father of V in case 1 and S is the father of N in case 2.



P is daughter-in-law of S's spouse. Case 1 is eliminated here because there are nine persons in the family.



L is elder to A. It means L is maternal grandmother of A. Hence, the final blood relation is:



L is mother of R.

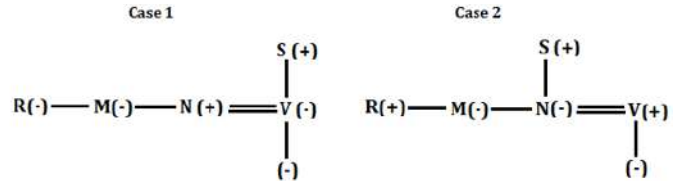
**S7. Ans.(b)**

**Sol.**

M is unmarried sister of R and N. N is married to V.

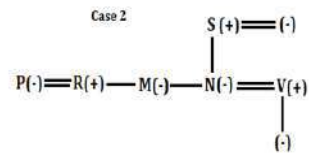
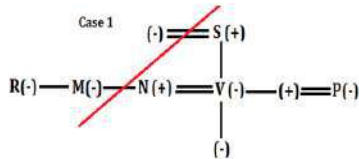
$$R - M(-) - N = V$$

S is maternal grandfather of V's daughter. R and V are of same gender. There will be two possible cases where, S is the father of V in case 1 and S is the father of N in case 2.

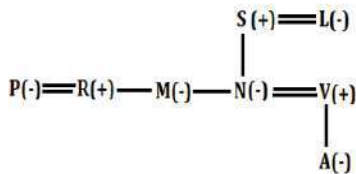


P is daughter-in-law of S's spouse. Case 1 is eliminated here because there are nine persons in the family.





L is elder to A. It means L is maternal grandmother of A. Hence, the final blood relation is:



P is sister-in-law of A's mother i.e., N.

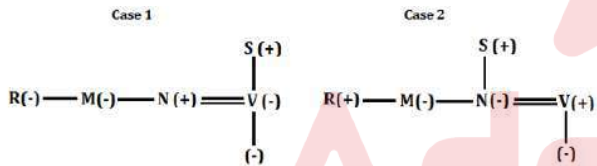
### S8. Ans.(a)

Sol.

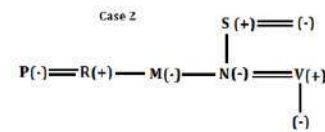
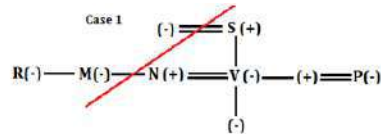
M is unmarried sister of R and N. N is married to V.

$$R \text{---} M(-) \text{---} N \text{---} V$$

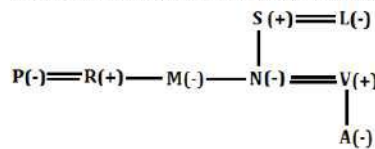
S is maternal grandfather of V's daughter. R and V are of same gender. There will be two possible cases where, S is the father of V in case 1 and S is the father of N in case 2.



P is daughter-in-law of S's spouse. Case 1 is eliminated here because there are nine persons in the family.



L is elder to A. It means L is maternal grandmother of A. Hence, the final blood relation is:



Except R, all are female.

### S9. Ans.(d)

Sol. Multiple of 3= 3, 6, 9, 12, 15, 18, 21, 24; Multiple of 7= 7, 14 (21 is taken as 3's multiple)

Remaining letters= 16

### S10. Ans.(a)

Sol.

T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. Here we get 2 possible cases.

Months	Persons	
	Case 1	Case 2
March		
April		W
May	U	V
June		
July		
August	T	T
September		
October	W	
November	V	U

G purchased before June. One person purchased between G and X. Case 2 will eliminate here. Y purchased two months after X.

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons
March	Z
April	G
May	U
June	Vacant
July	X
August	T
September	Y
October	W
November	V

Z purchased in March.

### S11. Ans.(c)

**Sol.**

T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. Here we get 2 possible cases.

Months	Persons	
	Case 1	Case 2
March		
April		W
May	U	V
June		
July		
August	T	T
September		
October	W	
November	V	U

G purchased before June. One person purchased between G and X. Case 2 will eliminate here. Y purchased two months after X.

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons
March	Z
April	G
May	U
June	Vacant
July	X
August	T
September	Y
October	W
November	V

No one purchased the shirt in June.

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**S12. Ans.(a)**

**Sol.**

T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. Here we get 2 possible cases.

Months	Persons	
	Case 1	Case 2
March		
April		W
May	U	V
June		
July		
August	T	T
September		
October	W	
November	V	U

G purchased before June. One person purchased between G and X. Case 2 will eliminate here. Y purchased two months after X.

Months	Persons	
	Case 1	Case 2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons	
	Case 1	Case 2
March		Z
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons
March	Z
April	G
May	U
June	Vacant
July	X
August	T
September	Y
October	W
November	V

Three months gap between G and T.

**S13. Ans.(d)**

**Sol.**

T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. Here we get 2 possible cases.

Months	Persons	
	Case 1	Case 2
March		
April		W
May	U	V
June		
July		
August	T	T
September		
October	W	
November	V	U

G purchased before June. One person purchased between G and X. Case 2 will eliminate here. Y purchased two months after X.

Months	Persons	
	Case 1	Case 2
March		Z
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons
March	Z
April	G
May	U
June	Vacant
July	X
August	T
September	Y
October	W
November	V

Five persons purchased the shirt before Y.

S14. Ans.(e)

Sol.

T purchased in August. Two months gap between T and U. Five months gap between U and V who purchased just after W. No month gap is between V and W. Here we get 2 possible cases.

Months	Persons	
	Case 1	Case 2
March		
April		W
May	U	V
June		
July		
August	T	T
September		
October	W	
November	V	U

G purchased before June. One person purchased between G and X. Case 2 will eliminate here. Y purchased two months after X.

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons	
	Case 1	Case-2
March		G
April	G	W
May	U	V
June	Vacant	
July	X	
August	T	T
September	Y	
October	W	
November	V	U

Z purchased the shirt in the month having 31 days. So, Z will purchase in March. Hence, the final arrangement is:

Months	Persons
March	Z
April	G
May	U
June	Vacant
July	X
August	T
September	Y
October	W
November	V

Except Y, all persons purchased the shirt in the month having 31 days.

S15. Ans.(b)

Sol.

Words	Codes
Rural	##
And	ββ
Urban	&&
Areas	%%
Labour	@@
Force	¥¥
Survey	€€
Four/ In	\$\$/ ©©
Rate	μμ

'€€' is the code for survey.

**S16. Ans.(c)**

**Sol.**

Words	Codes
Rural	##
And	ββ
Urban	&&
Areas	%%
Labour	@@
Force	¥¥
Survey	€€
Four/ In	\$\$/ ©©
Rate	μμ

Rate is coded as 'μμ'.

**S17. Ans.(b)**

**Sol.**

Words	Codes
Rural	##
And	ββ
Urban	&&
Areas	%%
Labour	@@
Force	¥¥
Survey	€€
Four/ In	\$\$/ ©©
Rate	μμ

The code for 'in labour' will be '\$\$ @@'.

**S18. Ans.(d)**

**Sol.**

Words	Codes
Rural	##
And	ββ
Urban	&&
Areas	%%
Labour	@@
Force	¥¥
Survey	€€
Four/ In	\$\$/ ©©
Rate	μμ

The correct code for 'force' is '¥¥'.

**S19. Ans.(a)**

**Sol.**

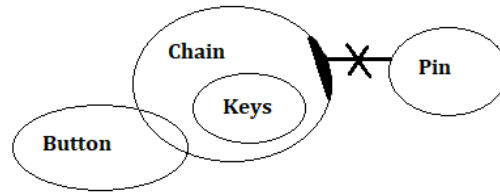
Words	Codes
Rural	##
And	ββ
Urban	&&
Areas	%%
Labour	@@
Force	¥¥
Survey	€€
Four/ In	\$\$/ ©©
Rate	μμ

The code for 'areas' is '%%'.

**S20. Ans.(a)**

**Sol. I.** Follows- there is no direct relation between button and pin. Hence, the relation between button and pin will follow in possibility case.

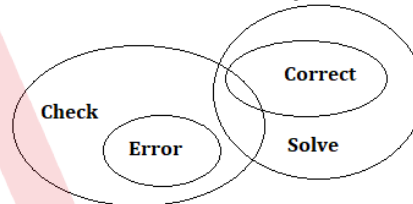
**II.** Not follow- there is no direct relation between pin and keys hence, in definite case, their relation will not follow.



**S21. Ans.(d)**

**Sol. I.** Not follows- because the part of check which is error cannot relate with any other element. Hence, all check can never be solve.

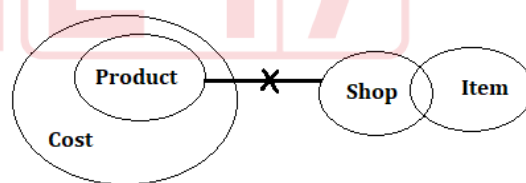
**II.** Not follows- because Error can only relate with check and not with any other element.



**S22. Ans.(e)**

**Sol. I.** Follows- because the part of cost which is product is not related with shop. So, the given conclusion will follow.

**II.** Follows- because only a few part (some part) of shop is item. So, some part of shop will definitely not item.





**S23. Ans.(e)**

**Sol.** SPOKESPERSON= SPLKBSPBRSLN

There is no vowel in the new word, hence difference between vowels and consonants will be 'twelve'.

**S24. Ans.(b)**

**Sol.**

G lives on the floor which is a multiple of 7. It means G lives on 21<sup>st</sup> floor. Three persons live between G and J. So, J will live on 9<sup>th</sup> floor. H lives below J. There are two possible cases- H will either live on 6<sup>th</sup> floor or on 3<sup>rd</sup> floor.

Floors	Persons	
	Case 1	Case 2
24		
21	G	G
18		
15		
12		
9	J	J
6	H	
3		H

Sum of floors of J and H is equal to the floor of F. In case-1, F will live on 15<sup>th</sup> floor and in case-2, F will live on 12<sup>th</sup> floor. D lives just below F. Case 2 will eliminate here because D cannot be placed just below F.

Floors	Persons	
	Case 1	Case-2
24		
21	G	G
18		
15	F	
12	D	F
9	J	J
6	H	
3		H

C lives on the floor which is a multiple of 6 but below A. So, C will live on 18<sup>th</sup> floor and A will live on 24<sup>th</sup> floor. And, the remaining person K will live on 3<sup>rd</sup> floor. Hence, the final arrangement is:

Floors	Persons
24	A
21	G
18	C
15	F
12	D
9	J
6	H
3	K

Two persons live between K and D.

**S25. Ans.(d)**

**Sol.**

G lives on the floor which is a multiple of 7. It means G lives on 21<sup>st</sup> floor. Three persons live between G and J. So, J will live on 9<sup>th</sup> floor. H lives below J. There are two possible cases- H will either live on 6<sup>th</sup> floor or on 3<sup>rd</sup> floor.

Floors	Persons	
	Case 1	Case 2
24		
21	G	G
18		
15		
12		
9	J	J
6	H	
3		H

Sum of floors of J and H is equal to the floor of F. In case-1, F will live on 15<sup>th</sup> floor and in case-2, F will live on 12<sup>th</sup> floor. D lives just below F. Case 2 will eliminate here because D cannot be placed just below F.

Floors	Persons	
	Case 1	Case-2
24		
21	G	G
18		
15	F	
12	D	F
9	J	J
6	H	
3		H

C lives on the floor which is a multiple of 6 but below A. So, C will live on 18<sup>th</sup> floor and A will live on 24<sup>th</sup> floor. And, the remaining person K will live on 3<sup>rd</sup> floor. Hence, the final arrangement is:

Floors	Persons
24	A
21	G
18	C
15	F
12	D
9	J
6	H
3	K

C lives on 18<sup>th</sup> floor.

**S26. Ans.(c)**

**Sol.**

G lives on the floor which is a multiple of 7. It means G lives on 21<sup>st</sup> floor. Three persons live between G and J. So, J will live on 9<sup>th</sup> floor. H lives below J. There are two possible cases- H will either live on 6<sup>th</sup> floor or on 3<sup>rd</sup> floor.

Floors	Persons	
	Case 1	Case 2
24		
21	G	G
18		
15		
12		
9	J	J
6	H	
3		H

Sum of floors of J and H is equal to the floor of F. In case-1, F will live on 15<sup>th</sup> floor and in case-2, F will live on 12<sup>th</sup> floor. D lives just below F. Case 2 will eliminate here because D cannot be placed just below F.

Floors	Persons	
	Case 1	Case-2
24		
21	G	G
18		
15	F	
12	D	F
9	J	J
6	H	
3		H

C lives on the floor which is a multiple of 6 but below A. So, C will live on 18<sup>th</sup> floor and A will live on 24<sup>th</sup> floor. And, the remaining person K will live on 3<sup>rd</sup> floor. Hence, the final arrangement is:

Floors	Persons
24	A
21	G
18	C
15	F
12	D
9	J
6	H
3	K

$A(24) - F(15) = 9$

**S27. Ans.(e)**

**Sol.**

G lives on the floor which is a multiple of 7. It means G lives on 21<sup>st</sup> floor. Three persons live between G and J. So, J will live on 9<sup>th</sup> floor. H lives below J. There are two possible cases- H will either live on 6<sup>th</sup> floor or on 3<sup>rd</sup> floor.

Floors	Persons	
	Case 1	Case 2
24		
21	G	G
18		
15		
12		
9	J	J
6	H	
3		H

Sum of floors of J and H is equal to the floor of F. In case-1, F will live on 15<sup>th</sup> floor and in case-2, F will live on 12<sup>th</sup> floor. D lives just below F. Case 2 will eliminate here because D cannot be placed just below F.

Floors	Persons	
	Case 1	Case-2
24		
21	G	G
18		
15	F	
12	D	F
9	J	J
6	H	
3		H

C lives on the floor which is a multiple of 6 but below A. So, C will live on 18<sup>th</sup> floor and A will live on 24<sup>th</sup> floor. And, the remaining person K will live on 3<sup>rd</sup> floor. Hence, the final arrangement is:

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Floors	Persons
24	A
21	G
18	C
15	F
12	D
9	J
6	H
3	K

F lives on an odd numbered floor; hence, option (e) is not correct.

**S28. Ans.(b)**

**Sol.**

G lives on the floor which is a multiple of 7. It means G lives on 21<sup>st</sup> floor. Three persons live between G and J. So, J will live on 9<sup>th</sup> floor. H lives below J. There are two possible cases- H will either live on 6<sup>th</sup> floor or on 3<sup>rd</sup> floor.

Floors	Persons	
	Case 1	Case 2
24		
21	G	G
18		
15		
12		
9	J	J
6	H	
3		H

Sum of floors of J and H is equal to the floor of F. In case-1, F will live on 15<sup>th</sup> floor and in case-2, F will live on 12<sup>th</sup> floor. D lives just below F. Case 2 will eliminate here because D cannot be placed just below F.

Floors	Persons	
	Case 1	Case-2
24		
21	G	G
18		
15	F	
12	D	F
9	J	J
6	H	
3		H

C lives on the floor which is a multiple of 6 but below A. So, C will live on 18<sup>th</sup> floor and A will live

on 24<sup>th</sup> floor. And, the remaining person K will live on 3<sup>rd</sup> floor. Hence, the final arrangement is:

Floors	Persons
24	A
21	G
18	C
15	F
12	D
9	J
6	H
3	K

D is related to H.

**S29. Ans.(d)**

**Sol.** 2 9, 2 9, 2 9, 4 9

**S30. Ans.(a)**

**Sol.**

New series= 4 6 9 8 6 4 9 8 9 6 4 9 8 6 4 9 4 6

10<sup>th</sup> from right end= 9

**S31. Ans.(c)**

**Sol.**

4 7 6 2 9 8 6 4 3 7 9 8 5 2 9 6 4 7 3 2 9 8 6 3 4 9 7 5 4 2 6

3's multiple digits are 3, 6 and 9.

**S32. Ans.(d)**

**Sol.** 7<sup>th</sup> to the right of 11<sup>th</sup> from left= 18<sup>th</sup> from left= 7

**S33. Ans.(e)**

**Sol.**

I. 55 > 51 (true)

II. 31 ≥ 67 (true)

**S34. Ans.(d)**

**Sol.**

I. RR > SS (false)

II. UU < SS (false)

**S35. Ans.(c)**

**Sol.**

I. G = Q (false)

II. Q < A (false)

**S36. Ans.(e)**

**Sol.**

B is three designations senior to the one who likes green. More than two persons work between B and E. There are two possible cases.



Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO			B	
Director	B			
Product head				
Sr. manager				Green
Manager		Green	E/	
Team leader	E		E/	

C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. Case 2 will eliminate here with this condition.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO	D	Red	B	
Director	B		F	
Product head	F		G	Yellow
Sr. manager	C	Yellow	D	Green
Manager		Green		
Team leader	E		E	

The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Now, A is the remaining person who is Manager. Manger does not like Grey. It means CEO likes grey. Hence, the final arrangement is:

Designation	Person	Color
CEO	D	Grey
Director	B	Red
Product head	F	Blue
Sr. manager	C	Yellow
Manager	A	Green
Team leader	E	Orange

All the given combinations are correct.

**S37. Ans.(d)**

**Sol.**

B is three designations senior to the one who likes green. More than two persons work between B and E. There are two possible cases.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO			B	
Director	B			
Product head				
Sr. manager				Green
Manager		Green	E/	
Team leader	E		E/	

C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. Case 2 will eliminate here with this condition.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO	D	Red	B	
Director	B		F	
Product head	F		G	Yellow
Sr. manager	C	Yellow	D	Green
Manager		Green		
Team leader	E		E	

The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Now, A is the remaining person who is Manager. Manger does not like Grey. It means CEO likes grey. Hence, the final arrangement is:

Designation	Person	Color
CEO	D	Grey
Director	B	Red
Product head	F	Blue
Sr. manager	C	Yellow
Manager	A	Green
Team leader	E	Orange

Three persons work between A and D.

**S38. Ans.(b)**

**Sol.**

B is three designations senior to the one who likes green. More than two persons work between B and E. There are two possible cases.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO			B	
Director	B			
Product head				
Sr. manager				Green
Manager		Green	E/	
Team leader	E		E/	

C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. Case 2 will eliminate here with this condition.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO	D	Red	B	
Director	B		F	
Product head	F		G	Yellow
Sr. manager	C	Yellow	D	Green
Manager		Green		
Team leader	E		E	

The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Now, A is the remaining person who is Manager. Manger

does not like Grey. It means CEO likes grey. Hence, the final arrangement is:

Designation	Person	Color
CEO	D	Grey
Director	B	Red
Product head	F	Blue
Sr. manager	C	Yellow
Manager	A	Green
Team leader	E	Orange

E is two designations junior to C.

### S39. Ans.(e)

Sol.

B is three designations senior to the one who likes green. More than two persons work between B and E. There are two possible cases.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO			B	
Director	B			
Product head				
Sr. manager				Green
Manager		Green	E/	
Team leader	E		E/	

C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. Case 2 will eliminate here with this condition.

Designation	Person	Color	Person	Color
	Case 1		Case-2	
CEO	D	Red	B	
Director	B		F	
Product head	F		G	Yellow
Sr. manager	C	Yellow	D	Green
Manager		Green		
Team leader	E		E	

The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Now, A is the remaining person who is Manager. Manger does not like Grey. It means CEO likes grey. Hence, the final arrangement is:

Designation	Person	Color
CEO	D	Grey
Director	B	Red
Product head	F	Blue
Sr. manager	C	Yellow
Manager	A	Green
Team leader	E	Orange

F likes blue.

### S40. Ans.(c)

Sol.

B is three designations senior to the one who likes green. More than two persons work between B and E. There are two possible cases.

Designation	Person	Color	Person	Color
	Case 1		Case 2	
CEO			B	
Director	B			
Product head				
Sr. manager				Green
Manager		Green	E/	
Team leader	E		E/	

C likes yellow and is just junior to F who is not junior to Product head. D is neither just junior nor just senior to E. D does not like green and red. Case 2 will eliminate here with this condition.

Designation	Person	Color	Person	Color
	Case 1		Case-2	
CEO	D	Red	B	
Director	B		F	
Product head	F		G	Yellow
Sr. manager	C	Yellow	D	Green
Manager		Green		
Team leader	E		E	

The one who likes blue is junior to the one who likes red and senior to the one who likes orange. Now, A is the remaining person who is Manager. Manger does not like Grey. It means CEO likes grey. Hence, the final arrangement is:

Designation	Person	Color
CEO	D	Grey
Director	B	Red
Product head	F	Blue
Sr. manager	C	Yellow
Manager	A	Green
Team leader	E	Orange

D is CEO in the company is the correct statement about D.

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**S41. Ans(c)****Sol.**

$$\begin{aligned} \text{Total rice produced by P} &= 12000 \times \frac{20}{100} \times \frac{100}{80} = 3000 \text{ quintals} \\ \text{Total rice produced by T} &= 12000 \times \frac{16}{100} \times \frac{100}{75} = 2560 \text{ quintals} \\ \text{Required difference} &= 3000 - 2560 = 440 \text{ quintals} \end{aligned}$$

**S42. Ans(c)****Sol.**

$$\begin{aligned} \text{Total good quality of rice produced by P and T} &= 12000 \times \frac{20+16}{100} = 4320 \text{ quintals} \\ \text{Required average} &= \frac{4320}{2} = 2160 \text{ quintals} \end{aligned}$$

**S43. Ans.(a)****Sol.**

$$\begin{aligned} \text{Total bad quality rice produced by Q} &= 12000 \times \frac{25}{100} \times \frac{4}{96} = 125 \text{ quintals} \\ \text{Total bad quality rice produced by R} &= 12000 \times \frac{15}{100} \times \frac{10}{90} = 200 \text{ quintals} \\ \text{Required percent} &= \frac{200-125}{125} \times 100 \\ &= \frac{75}{125} \times 100 = 60\% \end{aligned}$$

**S44. Ans.(e)****Sol.**

$$\begin{aligned} \text{Total bad quality rice produced by S} &= 12000 \times \frac{24}{100} \times \frac{2}{9} = 640 \text{ quintals} \\ \text{Total good quality of rice produced by R} &= 12000 \times \frac{15}{100} = 1800 \text{ quintals} \\ \text{Required ratio} &= \frac{640}{1800} = 16 : 45 \end{aligned}$$

**S45. Ans.(b)****Sol.**

$$\begin{aligned} \text{Total bad quality rice produced by all the five farmers} &= 12000 \times \frac{100}{600} = 2000 \text{ quintals} \\ \text{Total good quality of rice produced by Q} &= 12000 \times \frac{25}{100} = 3000 \text{ quintals} \\ \text{Required percentage} &= \frac{3000}{2000} \times 100 = 150\% \end{aligned}$$

**S46. Ans.(d)****Sol.**

$$\begin{aligned} \text{I. } x^2 + 18x + 77 &= 0 \\ x^2 + 11x + 7x + 77 &= 0 \\ x(x+11) + 7(x+11) &= 0 \\ x &= -7, -11 \\ \text{II. } y^2 + 13y + 42 &= 0 \\ y^2 + 7y + 6y + 42 &= 0 \\ y(y+7) + 6(y+7) &= 0 \\ y &= -6, -7 \\ \text{So, } x &\leq y \end{aligned}$$

**S47. Ans.(b)****Sol.**

$$\begin{aligned} \text{I. } 3x^2 - x - 4 &= 0 \\ 3x^2 - 4x + 3x - 4 &= 0 \\ x(3x-4) + 1(3x-4) &= 0 \\ x &= -1, 4/3 \\ \text{II. } 3y^2 + 16y + 13 &= 0 \\ 3y^2 + 13y + 3y + 13 &= 0 \\ y(3y+13) + 1(3y+13) &= 0 \\ y &= -1, -13/3 \\ \text{So, } x &\geq y \end{aligned}$$

**S48. Ans.(e)****Sol.**

$$\begin{aligned} \text{I. } x^2 - x - 6 &= 0 \\ \Rightarrow x^2 - 3x + 2x - 6 &= 0 \\ \Rightarrow x(x-3) + 2(x-3) &= 0 \\ \Rightarrow (x+2)(x-3) &= 0 \\ \Rightarrow x &= -2, 3 \\ \text{II. } y^2 &= 4 \\ \Rightarrow y - 4 &= 0 \\ \Rightarrow (y-2)(y+2) &= 0 \\ \Rightarrow y &= 2, -2 \\ \text{Relationship between } x \text{ and } y &\text{ cannot be established.} \end{aligned}$$

**S49. Ans.(d)****Sol.**

$$\begin{aligned} \text{I. } x^3 + 2744 &= 0 \\ x^3 &= -2744 \\ x &= -14 \\ \text{II. } 2y^2 - 392 &= 0 \\ y^2 &= 196 \\ y &= +14, -14 \\ \text{So, } x &\leq y \end{aligned}$$

**S50. Ans.(b)****Sol.**

$$\begin{aligned} \text{I. } x^2 - 11x + 30 &= 0 \\ x^2 - 6x - 5x + 30 &= 0 \\ x(x-6) - 5(x-6) &= 0 \\ x &= 5, 6 \\ \text{II. } y^2 - 9y + 20 &= 0 \\ y^2 - 5y - 4y + 20 &= 0 \\ y(y-5) - 4(y-5) &= 0 \\ y &= 4, 5 \\ \text{So, } x &\geq y \end{aligned}$$

**S51. Ans.(b)****Sol.**

$$\begin{aligned} \text{let height of cone be } h \text{ cm} \\ \text{ATQ, } \frac{1}{3} \times \frac{22}{7} \times 12 \times 12 \times h &= 4224 \\ h &= 28 \text{ cm} \\ \text{So, side of square} &= 28 \times 2 = 56 \text{ cm} \\ \text{Perimeter of square} &= 56 \times 4 = 224 \text{ cm} \end{aligned}$$

**S52. Ans.(a)****Sol.**

$$\begin{aligned} \text{Let initial quantity of liquid A in the mixture} &= 2x \text{ litres.} \\ \text{And, let initial quantity of liquid B in the mixture} &= 3x \text{ litres.} \\ \text{And, quantity of liquid B in the final mixture} &= 3x - \frac{3}{5} \times 30 \\ &= (3x - 18) \text{ litres} \\ \text{Now,} \\ \frac{3x-18}{30} &= \frac{6}{5} \\ 3x &= 54 \\ \text{Required result} &= 54 \text{ litres} \end{aligned}$$

**S53. Ans.(d)**

**Sol.**

ATQ—

$$\text{Total amount received from scheme } P = \frac{X \times 8 \times 3}{100} + X \\ = \frac{124X}{100}$$

Now,

$$X + 25020 = \left(\frac{124X}{100}\right) \times \left(\frac{11}{10}\right)^2$$

$$10000X + 25020 \times 100^2 = 15004X$$

$$X = 50000$$

**S54. Ans.(b)**

**Sol.**

	Price	×	Consumption	=	Expenditure
Before →	5x	×	6y	=	30xy
After →	5x × $\frac{120}{100}$	=	6x × $\frac{5}{6}$	=	5y = 30xy
Percentage change in expenditure	$= \frac{30xy - 30xy}{30xy} \times 100 = 0\%$				

**S55. Ans.(b)**

**Sol.**

Let efficiency of A be 2x units/day.

$$\text{So, efficiency of B} = \frac{150}{100} \times 2x$$

$$= 3x \text{ units/day}$$

$$\text{Now, total work} = (2x + 3x) \times \frac{12}{5}$$

$$= 12x \text{ units}$$

$$\text{Required days} = \frac{12x}{3x}$$

$$= 4 \text{ days}$$

**S56. Ans.(b)**

**Sol.**

$$\frac{18}{100} \times 650 - \frac{8}{100} \times 1150 \approx ?^2$$

$$117 - 92 \approx ?^2$$

$$?^2 \approx 25$$

$$? \approx 5$$

**S57. Ans.(a)**

**Sol.**

$$\frac{?-8}{20} \times 36 \approx 72$$

$$? - 8 \approx \frac{72 \times 20}{36}$$

$$? \approx 40 + 8$$

$$? \approx 48$$

**S58. Ans.(e)**

**Sol.**

$$\frac{30}{100} \times \frac{4}{7} \times \frac{1}{8} \times 420 \approx ?$$

$$? \approx 9$$

**S59. Ans.(c)**

**Sol.**

$$720 \times \frac{1}{80} \times \frac{1}{60} \times 120 \approx ? \\ ? \approx 18$$

**S60. Ans.(e)**

**Sol.**

$$\frac{900 \times 25}{36} \approx (? + 17)^2$$

$$(? + 17)^2 \approx 625$$

$$? + 17 \approx 25$$

$$? \approx 8$$

**S61. Ans.(a)**

**Sol.**

Pattern of series -

$$42 + (13^2 + 1) = 212$$

$$212 + (11^2 + 1) = 334$$

$$334 + (9^2 + 1) = 416$$

$$416 + (7^2 + 1) = 466$$

$$? = 466 + (5^2 + 1) = 492$$

**S62. Ans.(e)**

**Sol.**

Here the pattern is:

$$\times \frac{1}{3}, \times \frac{2}{3}, \times \frac{3}{3}, \times \frac{4}{3}, \times \frac{5}{3}$$

$$\Rightarrow 36 \times \frac{3}{3} = 36$$

So, 36 is the missing term.

**S63. Ans.(b)**

**Sol.**

Here the pattern is:

$$31 + (1 \times 27) = 58$$

$$58 + (2 \times 27) = 112$$

$$112 + (3 \times 27) = 193$$

$$193 + (4 \times 27) = 301$$

$$301 + (5 \times 27) = 436$$

So, 436 is the missing term.

**S64. Ans.(c)**

**Sol.**

Pattern is

$$4 \times 0.5 = 2$$

$$2 \times 1 = 2$$

$$2 \times 1.5 = 3$$

$$3 \times 2 = 6$$

$$6 \times 2.5 = 15$$

**S65. Ans.(a)**

**Sol.**

$$\begin{aligned} \text{Pattern is} \\ 40 \times 3 &= 120 \\ 120 \div 4 &= 30 \\ 30 \times 5 &= 150 \\ 150 \div 6 &= 25 \\ 25 \times 7 &= 175 \end{aligned}$$

**S66. Ans.(c)**

**Sol.**

$$\text{Required percentage} = \frac{20000}{24000} \times 100 = 83\frac{1}{3}\%$$

**S67. Ans.(b)**

**Sol.** Laptop has maximum number of sales in September month, which is 28000.

**S68. Ans.(d)**

**Sol.**

$$\text{Required percentage} = \frac{24000+36000}{108000} \times 100 = 55.55\%$$

**S69. Ans.(a)**

**Sol.**

$$\text{Average number of smartwatches} = \frac{20000+12000+16000+36000}{4} = 21000$$

**S70. Ans.(b)**

**Sol.**

$$\text{Required ratio} = \frac{20000}{16000} = 5:4$$

**S71. Ans.(d)**

**Sol.**

Let the speed of boat in upstream and downstream be  $2x$  and  $3x$  respectively.  
ATQ, downstream speed  $3x = \frac{45}{7.5} = 6 \text{ km/hr}$   
So, Upstream speed  $2x = 4 \text{ km/hr}$   
Speed of stream =  $\frac{6-4}{2} = 1 \text{ km/hr}$

**S72. Ans.(a)**

**Sol.**

Time taken by Pipe to fill one-fourth of tank =  $2T/4 = 0.5T$   
Time taken to fill three-fourth of the tank with 5 similar pipes =  $(2T \times \frac{3}{4}) \div 5 = 0.3T$   
So, Total required time =  $0.5T + 0.3T = 0.8T$

**S73. Ans.(e)**

**Sol.**

Let the speed of train A and train B be  $17X$  m/s and  
And let the length of train B =  $Y$  meter

$$\text{ATQ, } \frac{950+Y}{17X-13X} = 16$$

$$Y = 64X - 950,$$

So, length can't be determined with given data.

**S74. Ans.(e)**

**Sol.**

Let the present age of Neha and Sarita be  $3k$  and  $4k$  respectively.  
ATQ,  $\frac{3k-x}{4k-x} = \frac{x-5}{x+6}$   
So, here we have two variable and single equation.  
So, ages can't be determined with the help of given data.

**S75. Ans.(b)**

**Sol.**

Let initial speed of the car =  $s$  kmph.  
And initial time taken by the car to cover the distance =  $t$  hours.  
So, Total Distance =  $s \times t$  km.  
ATQ,  
 $(s-9)(t+2) = (s+5)(t-\frac{48}{60})$   
 $s-5t = 5$  .....(i)  
and,  
 $st = (s-9)(t+2)$   
 $2s-9t = 18$  .....(ii)  
From eq(i) & eq(ii)  
 $t=8$  hours  
and  $s=45$  kmph  
so, required distance =  $45 \times 8 = 360 \text{ km}$ .

**S76. Ans.(a)**

**Sol.**

Total players in the team FNC =  $200 \times \frac{100}{(60-40)} = 1000$   
Total players in the team PH =  $720 \times \frac{100}{(70-30)} = 1800$   
Required difference =  $1800 - 1000 = 800$

**S77. Ans.(b)**

**Sol.**

Total number of players who play PUBG on 'OS' device in Mega =  $90 \times \frac{56}{(56-44)} = 420$   
Total number of players who play PUBG on 'OS' device in IND =  $336 \times \frac{64}{(64-36)} = 768$   
Required percentage =  $\frac{768-420}{768} \times 100 = 45\frac{5}{16}\%$

**S78. Ans.(d)**

**Sol.**

Total number of players in team IND =  $336 \times \frac{100}{(64-36)} = 1200$   
Total number of players in team TSM =  $360 \times \frac{100}{(62-38)} = 1500$   
Total number of players in team PH =  $720 \times \frac{100}{(70-30)} = 1800$   
Required average =  $\frac{(1200+1500+1800)}{3} = 1500$

**S79. Ans.(e)**

**Sol.**

Total number of players who play PUBG on 'OS' device in FNC =  $200 \times \frac{60}{(60-40)} = 600$   
Total number of players who play PUBG on 'OS' device in PH =  $720 \times \frac{70}{(70-30)} = 1260$   
Required ratio =  $\frac{600}{1260} = 10:21$

**S80. Ans.(c)**

**Sol.**

$$\text{Total number of players in FNC} = 200 \times \frac{100}{(60-40)} = 1000$$

$$\text{Total number of players in Mega} = 90 \times \frac{100}{(56-44)} = 750$$

$$\text{Total number of players in TSM} = 360 \times \frac{100}{(62-38)} = 1500$$

$$\text{Required percentage} = \frac{1750 - 1500}{1500} \times 100 = 16\frac{2}{3}\%$$





## Reasoning Ability

**Directions (1-15):** In the following questions, a statement/s is/are given followed by some conclusions. Study the following information carefully and answer the questions accordingly.

**Q1. Statements:**  $X = Y \geq E > F > G > H > I, F < Z \leq T$

**Conclusions: I.**  $X < G$

**II.**  $Z > Y$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q2. Statements:**  $P < F \leq T < V = Q, S \geq U > T$

**Conclusions: I.**  $F < S$

**II.**  $T > P$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q3. Statements:**  $Y \geq L < T = Q > U, K \leq C < L$

**Conclusions: I.**  $Q > L$

**II.**  $K < Y$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q4. Statements:**  $R > K \leq T < M, M \leq J = Q > S$

**Conclusions: I.**  $R > M$

**II.**  $S > T$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q5. Statement:**  $A \geq T \geq S = D \geq Q$

**Conclusions: I.**  $A > Q$

**II.**  $Q = A$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q6. Statements:**  $R = T \geq V; P \leq W \leq R = S \leq Y$

**Conclusions: I.**  $W \leq T$

**II.**  $Y = R$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q7. Statements:**  $P = N \geq J > T, C = Z \geq X > P < K > R$

**Conclusions: I.**  $P > T$

**II.**  $J < X$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q8. Statements:**  $E > X < O = N \geq F \geq U < D = Q > V \geq Y$

**Conclusions: I.**  $U > X$

**II.**  $E \geq Q$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q9. Statements:**  $T \geq I > V = Z > K \leq H > C < G, M \geq E \geq H$

**Conclusions: I.**  $M > K$

**II.**  $M = K$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q10. Statements:**  $H > P > S \geq I = F > X, V \geq T > W = D \geq H$

**Conclusions: I.**  $I \leq H$

**II.**  $S < W$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q11. Statements:**  $A > L \geq C \geq T, E = F > S, S = A$

**Conclusions: I.**  $S > L$

**II.**  $C > T$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q12. Statements:**  $Y > T \geq C \geq D$ ,  $E = U > G$ ,  $G = Y$

**Conclusions:** I.  $U > Y$

II.  $T > U$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q13. Statements:**  $K \leq L > M$ ,  $Y = O \geq R$ ,  $K > Q > Y$

**Conclusions:** I.  $Y \geq R$

II.  $Y > R$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q14. Statements:**  $F \leq L > T$ ,  $N = O \geq P$ ,  $F > Q > S$

**Conclusions:** I.  $L > T$

II.  $F > S$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Q15. Statements:**  $X > Y \geq Z \geq W$ ,  $E = F > H$ ,  $H = A$

**Conclusions:** I.  $Y = W$

II.  $Y > W$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follows

**Directions (16-20): Study the following information and answer the given questions.**

There are six boxes having different weight. Each box contains different number of candies- 2, 3, 4, 5, 6 and 1 but not necessarily in the same order.

R contains more candies than M and R's weight more than O, which contains odd number of candies. Box N contains 4 candies. P weighs more than only O. M weighs more than Q and N, but less than R. Box Q contains 2 candies and Q's weight is more than N. The difference between the number of candies of box M and N is 1 and Box M contains more than 3 candies.

**Q16. Which of the following box contains highest number of candies?**

- (a) R
- (b) Q
- (c) O
- (d) M
- (e) None of these

**Q17. Which of the following box is third heaviest box?**

- (a) P
- (b) O
- (c) R
- (d) Q
- (e) None of these

**Q18. What is the difference between number of candies between box R and Q?**

- (a) 3
- (b) 1
- (c) 4
- (d) 2
- (e) None of these

**Q19. Which of the following box is heavier than N but lighter than M?**

- (a) O
- (b) Q
- (c) R
- (d) P
- (e) None of these

**Q20. How many boxes are lighter than Q?**

- (a) One
- (b) Two
- (c) Three
- (d) More than Three
- (e) None

**Directions (21-25): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.**

**Mark answer as**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q21. Statements:**  $A > K > D > L$ ,  $M \leq C \leq D$ ,  $L > Q$

**Conclusions:** I.  $C < K$  II.  $A > M$

**Q22. Statements:**  $T \geq M \geq E$ ,  $E < O$ ,  $A > E > S$

**Conclusions:** I.  $T > O$  II.  $S < O$





**Q23. Statements:**  $G \geq C > U$ ,  $P = W \geq U$ ,  $W < N < T$

**Conclusions:** I.  $G > T$  II.  $U < N$

**Q24. Statements:**  $R > Q > J > D$ ,  $M \leq C \leq J$

**Conclusions:** I.  $D > M$  II.  $M \geq D$

**Q25. Statements:**  $Z \geq V > U$ ,  $R = E < U$ ,  $E > M < O$

**Conclusions:** I.  $Z > E$  II.  $U < O$

**Directions (26-30):** In each of the questions below, some statements are given followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q26. Statements:** Only few apple are mango

Some mango are grapes

Only a few mango are Red

**Conclusion: I:** Some Red are grapes

**II:** All grapes can be mango

**Q27. Statements:** Only Race are track

Only a few race are bike

All bike are cars

**Conclusion: I:** Some cars are race

**II:** Some track are car is possibility

**Q28. Statements:** Some good are bad

All bad are blue

No bad is green

**Conclusions: I.** All good can never be green

**II.** Some blue are not green

**Q29. Statements:** Some black are white

No white is blue

Some blue are yellow

**Conclusions: I.** Some yellow are white

**II.** All black can never be yellow

**Q30. Statements:** Only a few silver are gold

Some gold are iron

No iron is diamond

**Conclusions: I:** All gold can be diamond

**II:** Some iron are silver

**Directions (31-32):** Study the following information carefully and answer the questions given below.

Point A is 10m West of point C. Point C is 20m South of point E. Point E is 30m West of point B. Point D is 40m South of point B. Point F is 5m South of point G. Point H is 10m West of point G. Point F is 30m West of point D.

**Q31. Point H is in which direction from point A?**

- (a) West
- (b) South west
- (c) South
- (d) North east
- (e) South east

**Q32. What is the shortest distance between Point C and Point G?**

- (a) 10m
- (b) 20m
- (c) 15m
- (d) Can't be determine
- (e) None of these

**Directions (33-37):** Study the following information carefully and answer the questions given below:

Eight persons J, K, L, M, P, Q, R and S are the sitting around the square table in such a way four of them sit at four corners and face the center while four of them sit in the middle of each of the four sides and face outside.

J faces the center and sits third to the left of Q. P faces the center and is not an immediate neighbour of Q. Only one person sits between Q and R. M sits second to right of K, who faces the center. L is not an immediate neighbour of J.

**Q33. Who among the following are immediate neighbours of S?**

- (a) R, M
- (b) P, J
- (c) P, L
- (d) J, M
- (e) K, M

**Q34. What is the position of L with respect to P?**

- (a) Immediate right
- (b) Second to the right
- (c) Immediate left
- (d) Third to the left
- (e) None of these

**Q35. Four of the following five belong to a group in a certain way, find who among the following does not belong to the group?**

- (a) S
- (b) L
- (c) R
- (d) M
- (e) Q

**Q36. Who among the following person sits opposite to R?**

- (a) S
- (b) M
- (c) L
- (d) K
- (e) None of these

**Q37. How many maximum persons can sit between P and M?**

- (a) 6
- (b) 3
- (c) 2
- (d) 4
- (e) 5

**Directions (38-40): Study the following information carefully and answer the given questions.**

Eight boxes P, Q, R, S, T, U, V and W are placed one above the another, but not necessarily in the same order. Two boxes are placed between U and T. U is placed above T. One box is placed between U and V. Three boxes are placed between P and W. P is placed immediately below U. Two boxes are placed between R and W. Q is placed above S.

**Q38. Which of the following box is placed at top?**

- (a) Q
- (b) V
- (c) U
- (d) W
- (e) None of these

**Q39. How many boxes are placed between Box T and Box W?**

- (a) None
- (b) Two
- (c) One
- (d) Four
- (e) Three

**Q40. Which of the following box is placed at bottom?**

- (a) W
- (b) R
- (c) T
- (d) S
- (e) None of these

**Directions (41-45): Study the following information and answer the following questions:**

**In a certain code language-**

'Man play for improve' is written as 'fm lb pd ub',  
'Boy for help other' is written as 'ub ty qb gb',  
'Improve other by work' is written as 'fd pd nu ty',  
'Boy see work done' is written as 'qb nu vf mb',

**Q41. What is the code for 'see' in the given code language?**

- (a) qb
- (b) vf
- (c) nu
- (d) mb
- (e) Cannot determined

**Q42. Which among the following word is written as 'gb' in the given code language?**

- (a) work
- (b) help
- (c) man
- (d) boy
- (e) None of these

**Q43. Which among the following word is written as 'fd pd' in the given code language?**

- (a) play improve
- (b) man done
- (c) by work
- (d) improve by
- (e) None of these

**Q44. What is the possible code for 'other time' in the given code language?**

- (a) wc fd
- (b) mb vf
- (c) ty wc
- (d) rb mb
- (e) ty ub

**Q45. Which among the following word is written as 'fm' in the given code language?**

- (a) man
- (b) boy
- (c) done
- (d) play
- (e) Either (a) or (d)

**Directions (46-50): Study the following information carefully and answer the questions given below:**

Seven persons i.e., J, X, K, Y, L, Z and M goes to a party on different days of the week. Week starting from Monday. No two persons go to party on the same day. Two persons go to party between K and Z. K goes to party before Z. One person goes to party between K and J. J does not go to party just before Z. Y goes to party immediately before L. X goes to party before M but after J.

**Q46. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?**

- (a) J-X
- (b) X-L
- (c) K-Y
- (d) L-Z
- (e) Z-M

**Q47. Who among the following goes to party on Monday?**

- (a) J
- (b) X
- (c) K
- (d) Y
- (e) None of these

**Q48. The number of persons go to party between J and L, is same as the number of persons go to party between K and \_\_\_?**

- (a) X
- (b) Y
- (c) M
- (d) Z
- (e) None of these

**Q49. Who among the following goes to party just before Z?**

- (a) J
- (b) X
- (c) K
- (d) L
- (e) None of these

**Q50. Who among the following goes to party at last?**

- (a) M
- (b) J
- (c) Y
- (d) Z
- (e) None of these

**Directions (51-55): In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q51. Statements:** Some Cap are Hat. All Hat are Dog.

**Conclusion I:** All Cap can be Dog.

**II:** All Dog are Hat

**Q52. Statements:** Some Paper are Pen. All Page are Paper.

**Conclusion I:** Some Pen are Page

**II:** Some Pen can be Page

**Q53. Statements:** Only Ball is Nib. No Ball are Bat.

**Conclusion I:** No Nib is Bat

**II:** Some Nib can be Bat

**Q54. Statements:** Only Laptop are Mouse. No Mouse are Desktop.

**Conclusion I:** All Laptop can be Desktop

**II:** Some Laptop can be Desktop

**Q55. Statements:** Only Headphone are Mobile. Some Bottle are Headphones.

**Conclusion I:** Some Mobile are Bottle

**II:** All Bottle are Headphone

**Directions (56-60):** Study the following information carefully and answer the questions given below:

**853 670 246 586 324 195**

**Q56.** If all the digits in the number are arranged in the descending order within the number from right to left, then which among the following will be the second highest number after re arrangement?

- (a) 853
- (b) 670
- (c) 324
- (d) 195
- (e) 246

**Q57.** If all the digits in the number are arranged in the ascending order within the number from right to left, then which among the following will be the second lowest number after re arrangement?

- (a) 853
- (b) 670
- (c) 324
- (d) 195
- (e) 246

**Q58.** If 9 is subtracted from each number than how many numbers thus formed are odd numbers?

- (a) one
- (b) two
- (c) three
- (d) four
- (e) None of these

**Q59.** What is the product of the second digit of lowest number and first digit of the highest number?

- (a) 86
- (b) 40
- (c) 72
- (d) 90
- (e) None of these

**Q60.** If all the numbers are added, then what will be the second digit from the left of the new number formed?

- (a) 1
- (b) 2
- (c) 3
- (d) 8
- (e) None of these

**Directions (61-65):** Study the following information carefully and answer the question given below:

M, N, O, P, Q, R, J and K are sitting in a straight line but not necessarily in the same order. Some of them are facing south while some are facing north. Only two people sit to the right of M. N sits third to the left of M. Only one person sits between N and R. R sits to the immediate right of Q. Only one person sits between Q and K. Both the immediate neighbours of N face the same direction. M faces north. O sits third to the left of R. N faces the opposite direction of M. J does not sit at any of the extremes ends of the line. P faces the same direction as Q. Both J and O face the opposite direction of K.

**Q61.** How many persons in the given arrangement are facing North?

- (a) More than four
- (b) Four
- (c) One
- (d) Three
- (e) Two

**Q62.** Four of the following five are alike in a certain way, and so form a group. Which of the following does not belong to the group?

- (a) Q, R
- (b) K, J
- (c) N, M
- (d) N, J
- (e) P, O

**Q63.** What is the position of R with respect to K?

- (a) Second to the left
- (b) Third to the right
- (c) Third to the left
- (d) Fifth to the right
- (e) Second to the right

**Q64.** Who amongst the following sits exactly between K and Q?

- (a) N
- (b) J
- (c) R
- (d) Q
- (e) O

**Q65.** Who is sitting 2nd to the right of N?

- (a) K
- (b) P
- (c) R
- (d) Q
- (e) None of these.

**Directions (66-70):** Following questions are based on the five three-digit numbers given below.

**947 376 694 739 863**

**Q66.** If all the digits in each of the numbers are arranged in increasing order within the number, then, which of the following number will become the lowest in the new arrangement of numbers?

- (a) 947
- (b) 863
- (c) 739
- (d) 694
- (e) 376

**Q67.** If all the numbers are arranged in ascending order from left to right then, which of the following will be the sum of all the three digits of the number which is 2nd from the right in the new arrangement?

- (a) 18
- (b) 19
- (c) 15
- (d) 16
- (e) None of these

**Q68.** What will be the difference when third digit of the 3rd lowest number is multiplied with the second digit of the highest number and third digit of the 2nd highest number is multiplied with the second digit of the lowest number?

- (a) 21
- (b) 20
- (c) 15
- (d) 16
- (e) None of these

**Q69.** If the positions of the second and the third digits of each of the numbers are interchanged then, how many even numbers will be formed?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) Four

**Q70.** If one is added to the second digit of each of the numbers and one is subtracted from the third digit of each number then, how many numbers thus formed will be divisible by three in new arrangement?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) Four

**Q71.** If in the number **639429687**, 1 is added to each of the digit which is less than five and 1 is subtracted from each of the digit which is greater than five then how many digits are repeating in the number thus formed?

- (a) Two
- (b) One
- (c) None
- (d) Three
- (e) Four

**Q72.** The position of how many alphabets will remain unchanged if each of the alphabets in the word 'TRANSPORT' is arranged in alphabetical order from left to right?

- (a) Four
- (b) Three
- (c) None
- (d) One
- (e) Two

**Q73.** Which of the following elements should come in a place '?' ?

**DF8 HJ12 LN16 ?**

- (a) PR19
- (b) PR18
- (c) PR21
- (d) PR22
- (e) None of these

**Q74.** Which of the following symbols should replace the sign (@) and (%) respectively in the given expression in order to make the expression  $B \geq C$  and  $H > K$  definitely true?

**$B \geq D \geq F = E = K @ C \leq A \% H$**

- (a)  $\leq, =$
- (b)  $\leq, \leq$
- (c)  $>, \leq$
- (d)  $=, <$
- (e)  $\geq, <$

**Q75.** Which of the following will be definitely true if the given expression  $A \geq D \geq G = K < H = M < Q \leq R$  is definitely true?

- (a)  $A < H$
- (b)  $D > G$
- (c)  $R > K$
- (d)  $R \geq G$
- (e)  $A < M$

**Directions (76-80):** Study the following information carefully and answer the questions given below:

Eight students A, B, C, D, E, F, G and H are giving a competitive exam in the months of August, September, October and November but not necessarily in the same order. In each month, they give their exam on either 15<sup>th</sup> or 20<sup>th</sup> of the given month.

H gives exam on 15<sup>th</sup> of any of the month which has 31 days. Only one student gives exam after F. Only two students give exam between F and B. Only one student gives exam between B and C. A give exam immediately after G. D does not give exam on the last day and doesn't give exam in the month which has 30 days. G does not give exam after D.

**Q76.** On which month H gives his exam?

- (a) August
- (b) September
- (c) October
- (d) November
- (e) Can't be determine

**Q77.** Which of the combination is true about B?

- (a) November-15
- (b) September-20
- (c) October-15
- (d) August-20
- (e) None of these

**Q78.** How many students give their exam after D?

- (a) One
- (b) Two
- (c) Four
- (d) Three
- (e) None

**Q79.** Who among the following gives exam before D but after A?

- (a) F
- (b) E
- (c) A
- (d) B
- (e) None of these

**Q80.** Who among the following gives their exam on 20<sup>th</sup> November?

- (a) G
- (b) E
- (c) F
- (d) H
- (e) D

**Q81.** A person starts walking in the east direction from point A and walks 12m to reach at point B. From Point B he takes two consecutive right turn and walks 10m and 24m to reach at point C. Finally, he starts walking in north direction from point C and walks 5m to reach at point D. What is the shortest distance and direction of point D point with respect to point A?

- (a) 20m, South-west
- (b) 15m, North-east
- (c) 13m, South-west
- (d) 13m, North-west
- (e) None of these

**Directions (82-84):** Study the following information carefully and answer the questions given below:

Point A is 8m north of point B. Point E is 5m south of point F. Point E is 10m east of point D which is 12m south of point C. Point G is 14m north of point H. Point C is 20m west of point B. Point G is 24m east of point F.

**Q82.** What is direction of point C with respect to point H?

- (a) North
- (b) North-east
- (c) North-west
- (d) South-east
- (e) None of these

**Q83.** What is the shortest distance between point B and point F?

- (a) 18m
- (b)  $\sqrt{149}$ m
- (c) 17m
- (d)  $\sqrt{13}$ m
- (e) None of these





**Q84.** If point O is midpoint of point F and G, then what is the direction of point O with respect to point B?

- (a) South-west
- (b) South
- (c) North-east
- (d) South-east
- (e) None of these

**Q85.** Neha starts walking in east direction from point A and walks 8m to reach point B. From point B she walks 17m in south-west direction to reach at point C, then walks 8m in east direction and reach at point D. From point D she takes a left turn and walks 5m to reach at point E. What is the shortest distance between Point E and point B?

- (a) 11m
- (b) 10m
- (c) 8m
- (d) 3m
- (e) None of these

**Directions (86-90):** In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions:

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusion I and II follow.

**Q86. Statements:**  $P \geq Q$ ,  $U > V = W$ ,  $P > R \leq V$ ,  $U < S$

**Conclusion: I.**  $W < S$

**II.**  $W \leq Q$

**Q87. Statements:**  $D \geq A$ ,  $B < F$ ,  $E > A > B$ ,  $G > D$

**Conclusion: I.**  $E > G$

**II.**  $G > F$

**Q88. Statements:**  $Z < W = V$ ,  $Y \geq W$ ,  $Z \geq U$ ,  $X \leq V$

**Conclusion: I.**  $Y > U$

**II.**  $W \geq X$

**Q89. Statements:**  $A \geq H$ ,  $C = B < H$ ,  $D \geq A > L$

**Conclusion: I.**  $B \leq D$

**II.**  $L < H$

**Q90. Statements:**  $Q = M$ ,  $K > S \geq M$ ,  $P \geq S$ ,  $R \leq Q$

**Conclusion: I.**  $P > R$

**II.**  $R = P$

**Directions (91-95):** Study the information given below and answer the questions based on it.

**NOT 8 Ω E 7 \$ K I L δ 3 Z Δ 6 A J R U 4 ‡ V D 9 B δ 1 Q ¥**

**Q91.** Which of the following is sixth to the right of thirteenth from the right end?

- (a) D
- (b) ‡
- (c) J
- (d) δ
- (e) 9

**Q92.** How many such symbols are there in the above arrangement each of which is immediately preceded by a number and also immediately followed by a vowel?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q93.** How many such consonants are there in the above arrangement each of which is immediately preceded by a number but not immediately followed by a consonant?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q94.** How many such numbers are there in the above arrangement each of which is immediately preceded by a symbol?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

**Q95.** Which of the following is ninth to the right of sixteenth from the left end?

- (a) D
- (b) B
- (c) J
- (d) V
- (e) 9

**Directions (96-100):** Study the letters sequence carefully and answer the questions given below.

**BFGT VH KY TIXA CDJI EHCA**

**Q96.** If 2nd and 4th letters of each word are interchanged, then how many meaningful words will be formed?

- (a) One
- (b) Three
- (c) Four
- (d) Two
- (e) None of these

**Q97.** If 2nd and 3rd letters in each word are changed with their succeeding letters, then how many words will have more than one vowel?

- (a) Four
- (b) Three
- (c) One
- (d) Two
- (e) None

**Q98.** If all the words are arranged from left to right according to English alphabetical order, then which of the following is 4th word from the right end?

- (a) BFGT
- (b) CDJI
- (c) VHKY
- (d) EHCA
- (e) TIXA

**Q99.** How many letters are there between 2nd letter of the word which is second from right end and 3rd letter of the word which is second from left end according to English alphabetical order?

- (a) Six
- (b) Three
- (c) Five
- (d) Two
- (e) None of these

**Q100.** If all the consonants are changed with their preceding letter and all the vowels are changed with their succeeding letter according to English alphabetical order, then how many words having at least one vowel?

- (a) Three
- (b) None
- (c) Two
- (d) Four
- (e) One

**Directions (101-105):** Study the letters and symbols sequence carefully and answer the questions given below.

@ Z E # X C \$ V % B A ^ L & K J \* H I Ω R Q ∞ W € T U α P M  
¥ N £ Y O © D β S

**Q101.** What is the sum of the place values according to English alphabetical order of the element which is 15th element from the left end and 16th element from the right end?

- (a) 32
- (b) 34
- (c) 33
- (d) 35
- (e) None of these

**Q102.** How many elements are there between 'A' and 7th element from the right end?

- (a) Twenty-one
- (b) Nineteen
- (c) Twenty
- (d) Twenty-two
- (e) None of these

**Q103.** How many letters are there which are immediately preceded by and immediately followed by a symbol?

- (a) Six
- (b) Seven
- (c) Four
- (d) Five
- (e) None of these

**Q104.** What is the position of '\*' with respect to 'M'?

- (a) Eleventh to the left
- (b) Thirteenth to the left
- (c) Twelfth to the left
- (d) Fourteenth to the left
- (e) None of these

**Q105.** Which amongst the following element is 11th to the left of 25th element from the left end?

- (a) &
- (b) L
- (c) K
- (d) J
- (e) None of these

**Directions (106-110):** Study the information carefully and answer the questions given below.

Eight Boxes P, Q, R, S, T, U, V and W are placed one above another in a stack. Each of them is different colour i.e., Red, Blue, Green, Pink, Yellow, White, Orange and Grey But not necessary in same order.

Box P which is Blue colour placed just above box which has Orange colour. Three boxes are placed between Orange colour box and Box T. Box S placed just above box Q which is Green colour. More than three boxes placed between Box T and Box Q. Two boxes are placed between Grey colour box and White colour box. Box U placed just above box V which is Red colour. Two boxes placed between box W and Box U. Box W is placed above Box U. Box R is pink colour and does not place just below white colour box.

**Q106.** Which of the following box is placed just above box P?

- (a) S
- (b) U
- (c) V
- (d) Q
- (e) None of these

**Q107.** How many boxes are placed between Box U and Box Q?

- (a) One
- (b) More than three
- (c) Two
- (d) None
- (e) Three

**Q108.** Which of the following is colour of Box T?

- (a) Orange
- (b) Green
- (c) Yellow
- (d) Blue
- (e) None of these

**Q109.** Which of the following combination is true?

- (a) W-Pink
- (b) P-Red
- (c) S-Orange
- (d) R- White
- (e) None is true

**Q110. Which of the following statement is not true regarding V?**

- (a) V likes Red colour
- (b) Box V placed below Pink colour box
- (c) Two boxes are placed between R and V
- (d) Box V placed below Box P
- (e) All is true

**Directions (111-115): In each of the questions below some statements are given followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q111. Statements:** Only a few music is sweet

No sweet is tasty

All tasty is Mango

**Conclusions: I:** Some mango are not sweet

**II:** No music is tasty

**Q112. Statements:** All Bus are Truck

All truck are Car

Some truck are train

**Conclusions: I:** Some bus are train

**II:** No train is bus

**Q113. Statements:** Some Hot are Cold

All cold are water

All water is steam

**Conclusions: I.** Some water are Hot

**II.** Some steam are hot

**Q114. Statements:** Only a few grapes are mango

Only a few mango are Onion

All onion are Apple

**Conclusions: I.** Some grapes are apple is possibility

**II.** Some mango are apple is possibility

**Q115. Statements:** No sand is smoke

All smoke is Smog

No smog is fog

**Conclusions: I.** Some smog are not sand

**II.** Some smoke are not Fog

**Q116.** If all the letters in the word **JOURNALISM** are arranged in alphabetical order from left to right in such a way that vowels are arranged first followed by consonants, then how many letters are there in between O and N after the arrangement?

- (a) Two
- (b) One
- (c) None
- (d) Three
- (e) Four

**Q117.** If in the number **18397652**, 2 is subtracted to each of the digit which is greater than 6 and 1 is added from each of the digit which is less than 5 and three is added to each of the digit which is equal to 5 and 6 then how many digits are repeating in the number thus formed?

- (a) Two
- (b) One
- (c) None
- (d) Three
- (e) Four

**Q118.** Mohit is 15<sup>th</sup> from the left end of a row and Ram is 22<sup>th</sup> from the right end of row. If they interchanged their positions then Ram ranks become 16<sup>th</sup> from right end. Find total number of persons in the row?

- (a) 30
- (b) 29
- (c) 31
- (d) 25
- (e) Can't be determined

**Q119.** Showing a woman on the stage, Ravi said, "She is the aunt of the son of only brother of my wife. How is the woman on stage related to Ravi?"

- (a) Wife
- (b) Brother
- (c) Mother-in-law
- (d) Sister-in-law
- (e) Mother

**Q120** Which of the following will be definitely not true if the given expression  $A > D \geq R > J \geq W > L = T \leq C > B \leq N$  is definitely true?

- (a)  $R > T$
- (b)  $C \geq T$
- (c)  $W < A$
- (d)  $L < D$
- (e)  $J \geq T$

**Directions (121-125): Study the information carefully and answer the questions given below.**

Eight persons A, B, C, D, E, F, G and H are sitting in a circular table. Some of them face towards the center and some of them face outside the center but not necessary in same order.

G sits second to the right of D. Three persons sit between G and A. Immediate neighbor of E face opposite direction to each other's. C sits second to the right of G. H sits second to the left of the one who is third to the left of G. F sits second to the left of H, who face inside. B does not sit opposite to H. F sits third to the right of C. C does not sit immediate left of E. The persons who face inside are more than the persons who face outside.

**Q121. How many persons face inside?**

- (a) One
- (b) Four
- (c) More than Four
- (d) Three
- (e) None of these



**Q122. Who among the following sits third to the right of H?**

- (a) C
- (b) E
- (c) B
- (d) F
- (e) None of these

**Q123. Who among the following sits third to the right of D?**

- (a) E
- (b) G
- (c) H
- (d) B
- (e) None of these

**Q124. Four of the following five are alike in certain way based from a group, find the one who does not belong to that group?**

- (a) B
- (b) A
- (c) G
- (d) H
- (e) D

**Q125. Who among the following sits third to the left of A?**

- (a) G
- (b) F
- (c) H
- (d) C
- (e) None of these

**Directions (126-130): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:**

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q126. Statements:**  $S \leq W < O \geq R \geq G > D \geq J$

**Conclusion I:**  $O > S$       **II:**  $J < R$

**Q127. Statements:**  $Q \leq L > P = F < E < R = C$

**Conclusion I:**  $L > F$       **II:**  $C > P$

**Q128. Statements:**  $E > T = R < C \leq P \geq G$

**Conclusion I:**  $P > T$       **II:**  $T > G$

**Q129. Statements:**  $Z < X < T = E > S > L = C$

**Conclusion I:**  $S > Z$       **II:**  $T > C$

**Q130. Statements:**  $S = M \leq Q = I \leq W > D$

**Conclusion I:**  $S = W$       **II:**  $W > S$

**Directions (131-135): Study the information and answer the following questions:**

**In a certain code language**

'Easy search Shot income' is written as 'ka la ho ga',  
'Command and Soft Easy' is written as 'mo ta pa ka',  
'Income more only part' is written as 'zi la ne ki'  
'Command more soft Easy' is written as 'zi mo ka ta'.

**Q131. What is the code for 'and' in the given code language?**

- (a) mo
- (b) ta
- (c) pa
- (d) ka
- (e) None of these

**Q132. What is the code for 'Soft' in the given code language?**

- (a) Only ta
- (b) Only mo
- (c) Either pa or mo
- (d) Only pa
- (e) Either mo or ta

**Q133. What may be the possible code for 'part only more' in the given code language?**

- (a) ne ki zi
- (b) mo zi ne
- (c) ki ne mo
- (d) mo zi ki
- (e) xi ka ta

**Q134. What is the code for 'more income' in the given code language?**

- (a) la ne
- (b) ga la
- (c) zi ka
- (d) zi ki
- (e) la zi

**Q135. What is the code for 'Easy' in the given code language?**

- (a) ta
- (b) ka
- (c) either ta or ka
- (d) zi
- (e) mo

**Directions (136-138): In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give the answer:**

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If neither conclusion I nor II is true
- (e) If both conclusions I and II are true

**Q136. Statements:**  $N > E \geq S$ ;  $S \geq U \leq G$ ;  $V = U$

**Conclusions:** I.  $E \geq V$       II.  $G > V$

**Q137. Statements:**  $A > B \leq D = E$ ;  $M \geq J > E = T$

**Conclusions:** I.  $D \geq A$     II.  $M > D$

**Q138. Statements:**  $N > E \geq S$ ;  $S \geq U \leq G$ ;  $V = U$

**Conclusions:** I.  $G > E$     II.  $E \geq G$

**Direction (139-141):** In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q139. Statements:** Only a few cotton is jute.

Some jute is not silk.

Some silk is nylon.

**Conclusions:** I. All jute being nylon is a possibility.

II. Some cotton is not jute.

(a) If only conclusion II follows.

(b) If both conclusions I and II follow.

(c) If either conclusion I or II follows.

(d) If only conclusion I follows.

(e) If neither conclusion I nor II follows.

**Q140. Statements:** Some mixture is cold.

Only a few cold is pink.

Only mixture is hot.

**Conclusions:** I. All mixture being pink is a possibility.

II. Some mixture can never be cold.

(a) If either conclusion I or II follows.

(b) If both conclusions I and II follow.

(c) If only conclusion II follows.

(d) If only conclusion I follows.

(e) If neither conclusion I nor II follows.

**Q141. Statements:** Only a few cotton is jute.

Some jute is not silk.

Some silk is nylon.

**Conclusions:** I. Some silk is not nylon.

II. All silk is nylon.

(a) If either conclusion I or II follows.

(b) If both conclusions I and II follow.

(c) If only conclusion II follows.

(d) If only conclusion I follows.

(e) If neither conclusion I nor II follows.

**Directions (142-146):** Study the following information carefully and answer the given questions.

There are eight boxes i.e. A, B, C, D, E, F, G and H which are kept one above the other but not necessarily in the same order. Three boxes are placed between box F and box C. Box F is placed above box C. Box B is placed at second position from the top. Box E is placed just above the box F. Only one box is placed between box H and box A. Box D is placed just above box A.

**Q142.** Which of the following boxes is placed at the bottommost position?

(a) G

(b) E

(c) C

(d) A

(e) None of these

**Q143.** How many boxes are placed between box D and box G?

(a) Two

(b) One

(c) Three

(d) None

(e) More than three

**Q144.** Which of the following statements is true about box G?

(a) Two boxes are placed above box G

(b) Box A is placed just above box G

(c) Three boxes are placed between box E and Box G

(d) Box G is placed at the topmost position

(e) All are true

**Q145.** Which of the following box is placed just above the box D?

(a) H

(b) B

(c) G

(d) C

(e) None of these

**Q146.** What is the position of box A?

(a) Just below box G

(b) At third position from the top

(c) Placed below box F

(d) None of these

(e) At fourth position from the bottom

**Q147.** How many pairs of letters are there in the word "PLATFORMS" which has as many letters between them as we have in the English alphabetical series (from both forward and backward direction)?

(a) Two

(b) One

(c) Three

(d) None

(e) More than three

**Q148.** How many such numerals are there in the number '936576483' which will remain at the same position when they are arranged in ascending order from right to left?

(a) One

(b) Two

(c) Three

(d) more than three

(e) None

**Q149.** P, U, V, R and T have different heights. T is just taller than R but just shorter than V. P is taller than U. P is not the tallest person then who among the following is the second tallest person?

- (a) P
- (b) V
- (c) U
- (d) T
- (e) R

**Q150.** Six boxes i.e., P, Q, R, S, T and U are arranged according to their weight in descending order. Book P is heavier than only book R. Book T is heavier than book U. Book S is heavier than book T but not the heaviest among all. Which among the following is the third lightest book?

- (a) Q
- (b) S
- (c) T
- (d) U
- (e) None of these

**Q151.** How many such numerals are there in the number '4185476429' which will remain at the same position when arranged in ascending order from left to right?

- (a) None
- (b) Three
- (c) More than three
- (d) Two
- (e) None of these

**Directions (152-155):** In each of the questions below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q152. Statements:** Only a few Bubbles are Soap.

All Soap are Margo.

Some Neem are not Margo.

**Conclusions: I.** Some Bubbles are not Neem.

**II.** Some Soap are not Bubbles.

**Q153. Statements:** All Ship are Jeep.

All Jeep are Bike.

Some Car are Bike.

**Conclusions: I.** Some Ship can be Car.

**II.** All Car are Bike.

**Q154. Statements:** Some Egg are Roll.

Some Roll are not Paratha.

**Conclusions: I.** All Egg can never be Paratha.

**II.** Some Paratha are not Roll.

**Q155. Statements:** All Noun are Pronoun.

Some Pronoun are Verb.

Some Verb are Tense.

**Conclusions: I.** Some Noun can be Verb.

**II.** Some Tense being Pronoun is a possibility.

**Q156.** In the five family members - A is the Father of B's sister. E is the paternal grandmother of D. B is the only son of C. Find the relation of D with respect to A?

- (a) Sister
- (b) Daughter
- (c) Daughter in law
- (d) Mother
- (e) None of these

**Directions (157-161):** Study the following information carefully and answer the questions given below:

Six persons are sitting in a row. Some of them are facing to the north while rest are facing to South. P sits 3<sup>rd</sup> to the left of B and both does not sit at the extreme ends. The persons who sit at the extreme ends are facing opposite direction. There are two persons sit between X and T. X does not sit near to B. R sits 3<sup>rd</sup> to the right of Y who is an immediate neighbor of B. R faces to the north. Y faces opposite direction with respect to R. Both P and T are facing in the same direction as R.

**Q157.** How many persons are facing to the north?

- (a) Two
- (b) Three
- (c) One
- (d) Four
- (e) Five

**Q158.** Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) P
- (b) T
- (c) Y
- (d) B
- (e) R

**Q159.** What is the position of X with respect to R?

- (a) 3<sup>rd</sup> to the left
- (b) 2<sup>nd</sup> to the right
- (c) immediate to the left
- (d) 2<sup>nd</sup> to the left
- (e) None of these

**Q160. How many persons are sit right side from T?**

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) None of these

**Q161. Who among the following persons are sitting at extreme end?**

- (a) P-X
- (b) X-Y
- (c) P-T
- (d) B-X
- (e) R-Y

**Directions (162-165): Study the following information carefully and answer the questions given below:**

Point G is in 5km north of Point E. Point B is in 8km east of Point G. Point C is in 8km west of Point H. Point B is in 14km north of Point H. Point D is in 6km west of Point F. Point A is in 5km north of Point D. Point E is in 12km east of Point A.

**Q162. What is the total distance between Point A and Point B?**

- (a) 22km
- (b) 2500m
- (c) 25km
- (d) 20km
- (e) None of these

**Q163. What is the direction of Point D with respect to Point G?**

- (a) South-west
- (b) South-east
- (c) North
- (d) South
- (e) North-west

**Q164. What is the shortest distance between Point A and Point G?**

- (a) 11km
- (b) 13km
- (c) 14km
- (d) 18km
- (e) None of these

**Q165. What is the direction of Point D with respect to Point C?**

- (a) South-east
- (b) North-west
- (c) South-west
- (d) South
- (e) North

**Directions (166-170): Study the following information carefully and answer the questions given below:**

In a certain code language,  
'Forest guide case cliff' is written as 'mo zn si lf',  
'Instant guide incident present' is written as 'gn iy oy si',  
'Cliff case key product' is written as 'vw mo zn gi',  
'Domestic case present instant' is written as 'gn oy mo wn'.

**Q166. What is the code for 'Domestic'?**

- (a) wn
- (b) mo
- (c) oy
- (d) gn
- (e) None of these

**Q167. Which of the following may be the code for 'product guide case'?**

- (a) vw si iy
- (b) gi mo si
- (c) iy si gi
- (d) vw mo si
- (e) Can't be determined

**Q168. What is the code for 'Key'?**

- (a) gi
- (b) zn
- (c) mo
- (d) vw
- (e) Can't be determined

**Q169. What does 'iy' stand for?**

- (a) Guide
- (b) Instant
- (c) Incident
- (d) Present
- (e) None of these

**Q170. What is the code for 'Case'?**

- (a) zn
- (b) si
- (c) oy
- (d) mo
- (e) Can't be determined



**Q171.** The position of how many alphabets will remain unchanged if each of the alphabets in the word 'INTERVATION' is arranged in alphabetical order from left to right?

- (a) Three
- (b) None
- (c) One
- (d) Two
- (e) None of these

**Q172.** In an exam, A, B, C and D each scored different marks. B scored more than C and D. No one scored less than A. Who amongst them scored the maximum marks?

- (a) B
- (b) Either C or D
- (c) D
- (d) Cannot be determined
- (e) None of these

**Q173.** In a row, Rajiv is twenty-first from the left end and Shivani is fifteenth from the right end. If they interchange their positions Shivani is twenty-seventh from the right end. How many people are there in the row?

- (a) 46
- (b) 47
- (c) 56
- (d) 59
- (e) None of the above

**Q174.** If it is possible to make only one meaningful word with the second, fourth, sixth and eighth letters of the word SERVICEABLE, which of the following will be the first letter of that word? If only two such words can be formed, give 'X' as the answer; if three or more such words can be formed, give 'Y' as your answer and if no such word can be formed, give 'Z' as the answer.

- (a) C
- (b) A
- (c) X
- (d) Z
- (e) Y

**Directions (175-177):** Study the following information carefully and answer the given questions.

There are seven friends i.e. A, B, C, D, E, F and G having different weights. At least three persons are heavier than D. B is not the heaviest. C is heavier than F but lighter than D. G is the lightest. B is heavier than D and E. The weight of second lightest person is 40 kg and second heaviest person is 62 kg.

**Q175.** If the weight of D is 52kg, then what may be possible weight of C?

- (a) 56kg
- (b) 70 kg
- (c) 48kg
- (d) 35 kg
- (e) None of the above

**Q176.** How many persons are lighter than E?

- (a) One
- (b) None
- (c) Three
- (d) Two
- (e) Four

**Q177.** Who is just heavier than E?

- (a) D
- (b) A
- (c) B
- (d) F
- (e) None of these

**Q178.** How many such pairs of letters are there in the word 'THOUGHT' each of which has as many letters between them in the word as in the English alphabet (Both forward and backward)?

- (a) One
- (b) None
- (c) Three
- (d) Two
- (e) Four

**Q179.** If each of the vowels in the word WEQIL is kept unchanged and each of the consonants is replaced by the next letter in English alphabet, how many meaningful words can be formed with the new letters using each letter only once in each word?

- (a) One
- (b) None
- (c) Three
- (d) Two
- (e) Four

**Q180.** How many such pairs of letters are there in the word 'BACKSPACE' each of which has as many letters between them in the word as in the English alphabet (Both forward and backward)?

- (a) One
- (b) None
- (c) Three
- (d) Two
- (e) More than three

**Direction (181-185):** Study the following information and answer the given questions.

Six people A, B, C, D, E and F attend an examination on six different days of a week from Monday to Sunday. One of the seven days is a holiday.

B attends the examination on Monday. D doesn't attend the examination on Thursday. F is not the person who attends the examination just after C. Only E and F attend the examination after the holiday. A attends the examination two days before the holiday. Neither Saturday nor Sunday is a holiday.

**Q181.** Which day is the holiday?

- (a) Tuesday
- (b) Wednesday
- (c) Thursday
- (d) Friday
- (e) None of the above



**Q182. Who among the following attends the examination on Tuesday?**

- (a) A
- (b) D
- (c) C
- (d) B
- (e) None of the above

**Q183. Who among the following attends the examination on Sunday?**

- (a) E
- (b) F
- (c) None
- (d) C
- (e) A

**Q184. On which day, does C attend the examination?**

- (a) Sunday
- (b) Monday
- (c) Tuesday
- (d) Wednesday
- (e) Thursday

**Q185. Which pair of the following is false?**

- (a) E – Saturday
- (b) D – Tuesday
- (c) A – Thursday
- (d) Friday – Holiday
- (e) F – Sunday

**Directions (186-190): Study the following data carefully and answer the questions accordingly.**

Ten people are sitting in two parallel rows. In Row I- A, B, C, D, and E are sitting, facing south direction and in Row II- M, N, O, P and Q are sitting, facing north direction. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row.

A sits third to the right of D. P sits opposite D. C sits second to the right of B. M is not sitting opposite to C. Two persons are sitting between P and O. E who is not sitting near to D, sits opposite to N who is not sitting at an end.

**Q186. How many persons are sitting to the right of B?**

- (a) Two
- (b) Four
- (c) None
- (d) Three
- (e) None of these

**Q187. Who among the following is sitting opposite to Q?**

- (a) E
- (b) C
- (c) D
- (d) B
- (e) None of these

**Q188. Find the odd one from the following.**

- (a) B
- (b) O
- (c) A
- (d) N
- (e) M

**Q89. Who among the following is sitting immediate right of P?**

- (a) N
- (b) M
- (c) O
- (d) Q
- (e) None of these

**Q190. Find the correct statement from the following.**

- (a) O and Q are immediate neighbors
- (b) B is not sitting at an end
- (c) A sits to the left of C
- (d) Three persons are sitting to the right of N
- (e) None is correct

**Directions (191-195): Study the following data carefully and answer the questions accordingly.**

There are eight people living in a four-story building as the ground floor is numbered 1 and the top floor is numbered as 4. Each of the floors has 2 flats as flat-A and flat-B. (Note 1: Flat-A is to the west of flat-B. Flat-A of floor 2 is immediate above flat-A of floor 1 and immediate below flat-A of floor 3 and so on. All the information is not necessarily in the same order. Note 2: If B lives in flat B and it is given that A lives above B then it means that A either lives in flat A or flat B above B. It is not necessary that A and B live in the same flat.) J lives above W but not in the same flat. J does not live on the top floor. W lives on an odd-numbered floor in Flat-B. T lives above J. Y and O live in different flats. F lives immediately below O. S lives to the north-east of T. M lives above Y. O lives to the south-east of M. F and O live in the same flat either flat A or flat B.

**Q191. Who lives on the second floor?**

- (a) M
- (b) S
- (c) Y
- (d) F
- (e) None of these

**Q192. Who among the following lives on the same floor?**

- (a) T, F
- (b) F, Y
- (c) O, M
- (d) Y, W
- (e) None of these

**Q193. How many people live above W?**

- (a) Four
- (b) Two
- (c) Six
- (d) Seven
- (e) None of these

**Q194. M is related to O, J is related to W than in the same way, T is related to \_\_\_\_\_?**

- (a) F
- (b) M
- (c) Y
- (d) J
- (e) None of these

**Q195. Who among the following lives in the north of S?**

- (a) F
- (b) O
- (c) Y
- (d) J
- (e) None

**Directions (196-210): In each of the questions below few statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.**

**Q196. Statements:** Only a few colors are smooth.

All pastel is smooth.

All smooth is Yellow.

**Conclusions: I.** All the pastel can be colors.

**II.** Some yellow is not colors.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q197. Statements:** Only a few engine are hill.

No engine is socket.

Only a few socket is rocket.

Only a few cake is socket.

**Conclusions: I.** Some engine is not rocket.

**II.** All rockets can never be engines.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q198. Statements:** All flats are homes.

All well are tiles.

No flat is well.

Only a few homes are well.

**Conclusions: I.** Some tiles are not flats.

**II.** A few homes are tiles.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q199. Statements:** Only a few Rabbit is Cute.

No Cute is Soft.

All Soft is Mice.

**Conclusions: I.** Some Rabbit is not Cute.

**II.** Some Rabbit is not Soft.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q200. Statements:** All Copy is Notebook.

Only a few Notebooks are Rough.

All books are Rough.

**Conclusions: I.** Some Copy being Rough is a possibility.

**II.** At least some Books are Notebooks.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q201. Statements:** Only a few Green is Light.

All Light is Brown.

Only a few Brown is Dark.

**Conclusions: I.** No Green is Dark.

**II.** All Brown can be Dark.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q202. Statements:** Only a few History is Geography.

All Geography is English.

Only a few English are Gk.

**Conclusions: I.** Some History is Gk.

**II.** No History is Gk.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q203. Statements:** Only a few Chargers are Laptops.

No Laptops are Power Banks.

All Power Banks are Mouse.

**Conclusions: I.** Some Chargers are not Power Banks.

**II.** Some Mouse are not Laptops.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow



**Q204. Statements:** No Excel are Copy.

All Copy are Insert.

Only a few Insert are View.

**Conclusions: I.** Some Copy are View.

**II.** No Insert are Excel.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q205. Statements:** All Gifts are Presents.

Only a few Presents are Rewards.

Some Rewards are not Surprises.

**Conclusions: I.** Some Gifts are not Surprises.

**II.** Some Presents are not Rewards

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q206. Statements:** Only a few Parrots are Green.

Some Green are Birds.

Only a few Birds are Pigeon.

**Conclusions: I.** No Green is Pigeon.

**II.** Some Green are Pigeons.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q207. Statements:** No Cars are Buses.

All Buses are Cycles.

Only a few Cycles are Scooters.

**Conclusions: I.** Some Scooters can be Cars.

**II.** Some Cycles are not Cars.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q208. Statements:** Only a few Fruits are Citrus.

All Citrus are Oranges.

No Oranges are Lemons.

**Conclusions: I.** Some Fruits are not Citrus.

**II.** Some Fruits are not Lemons.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q209. Statements:** Some Tiles are not Columns.

All Columns are Rows.

Only a few Rows are Sets.

**Conclusions: I.** Some Sets are Tiles.

**II.** All sets are Rows.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q210. Statements:** Only a few Flowers are Leaves.

All Leaves are Thorns.

No Thorns are Stems.

**Conclusions: I.** Some Flowers are not Leaves.

**II.** Some Leaves are not Stems.

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Directions (211-215):** Study the information given below and answer the questions based on it.

@ B V 2 6 9 @ F E \$ 1 & 5 A ! 5 8 9 D % Q P 6 % G 5 \$ 6 @ H N

**Q211.** If all 5's are deleted from the given arrangement and then remaining numbers are arranged after N in an increasing order then which of the following element will be sixth to the left of the thirteen element from the right end?

- (a) P
- (b) \$
- (c) !
- (d) H
- (e) None of these

**Q212.** How many numbers are there in the given arrangements which are immediately followed by a symbol?

- (a) Five
- (b) Three
- (c) Four
- (d) More than five
- (e) None of these

**Q213.** If all the symbols are deleted from the given arrangement, then which of the following elements will be eight from the right end and left end respectively?

- (a) A and Q
- (b) V and G
- (c) 9 and H
- (d) F and 6
- (e) Q and 1

**Q214.** If in the given arrangement number 8 is inserted after every sixth element, then which of the following element will be fifth to the right of the element which is ninth to the left of the one which is sixth from the right end?

- (a) %
- (b) !
- (c) 6
- (d) G
- (e) None of these

**Q215.** What will be the resultant if the element which is fifth from the extreme left end is multiplied by the element which is fourth from the extreme right end?

- (a) 35
- (b) 30
- (c) 36
- (d) 12
- (e) None of these

**Directions (216-220):** Study the following information carefully and answer the questions accordingly.

**In a coded language,**

'Wealth fast brings quantity life' is written as 'tq gp nt ab zx'.

'Life brings change of people' is written as 'cn rs gp zx hp'.

'Wealth people smile cuddle' is written as 'rs le qp nt'.

'Cuddle fast of life' is written as 'ab qp zx cn'.

**Q216.** What is the code for 'people quantity life brings smile'?

- (a) gp rs qp zx le
- (b) rs zx gp le tq
- (c) zx gp le nt ab
- (d) tq cn le zx hp
- (e) None of these

**Q217.** What is the code for 'of life'?

- (a) cn zx
- (b) zx qp
- (c) cn rs
- (d) le nt
- (e) hp ab

**Q218.** If the code for 'wealth' is interchanged with the code for 'change' then what is the possible code for 'wealth diet quantity cuddle'?

- (a) dv sx hp tq
- (b) nt hp tq dv
- (c) qp dv hp le
- (d) hp qp tq dv
- (e) hp dv tq cn

**Q219.** If the code for 'people' gets interchanged with the code for 'cuddle' similarly code for 'brings' gets interchanged with the code for 'change' then what is the code for 'brings wealth people'?

- (a) gp rs nt
- (b) zx nt qp
- (c) hp qp nt
- (d) gp nt rs
- (e) hp ab gp

**Q220.** What is the code for 'tq ab rs ch le'?

- (a) Quantity life hard fast smile
- (b) People fast soft smile change
- (c) Wealth change hard people smile
- (d) Smile people brings hard fast
- (e) Hard fast quantity people smile

**Directions (221-225):** Study the following letter-number-symbol sequence and answer the questions following it.

**S F E L 6 C O 3 N K I P 1 8 A B W 2 X 4 J 5 G Z 9 Q 7 V H**

**Q221.** How many such digits are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a vowel?

- (a) Four
- (b) Three
- (c) Five
- (d) Two
- (e) None of these

**Q222.** How many such consonants are there in the above arrangement, each of which is immediately preceded by a digit and immediately followed by a consonant?

- (a) None
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q223.** Which of the following is sixth to the right of nineteenth from the right end of the above arrangement?

- (a) 6
- (b) B
- (c) W
- (d) 2
- (e) None of these

**Q224.** Four of the following five are alike in a certain way and form a group. Which is the one that does not belong to that group?

- (a) I1K
- (b) B2A
- (c) XJ2
- (d) ZQG
- (e) C3L

**Q225.** Which of the following is eighth to the left of seventeenth from the left end of the given arrangement?

- (a) 9
- (b) K
- (c) N
- (d) 6
- (e) None of these

**Directions (226-240):** In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

**Q226. Statements:**  $B \geq U = L, K \leq V = S, S < M > B$

**Conclusions: I.**  $M > L$

**II.**  $V < B$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q227. Statements:**  $C = E \leq H, Y = V > P, H < Z \leq Y$

**Conclusions: I.**  $V > E$

**II.**  $C < Y$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q228. Statements:**  $Q > N \geq I, K \leq T = Q, B \leq P = K$

**Conclusions: I.**  $K \leq N$

**II.**  $P > I$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q229. Statements:**  $K < I \leq R, J = U \geq K, S > N \geq J$

**Conclusions: I.**  $N \geq K$

**II.**  $U \leq R$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q230. Statements:**  $R \geq U = J, K \leq T = S, S < N > R$

**Conclusions: I.**  $N > J$

**II.**  $T < R$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q231. Statements:**  $M < L < P < N = D < F > B > C > E$

**Conclusions: I.**  $N < E$

**II.**  $M < P$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q232. Statements:**  $N > B > H < E = F > G \geq L < M > P$

**Conclusions: I.**  $H > F$

**II.**  $N > H$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q233. Statements:**  $X > O > P < K > H \geq U > A < P > G \leq Z = R > S$

**Conclusions: I.**  $K > S$

**II.**  $H \leq S$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q234. Statements:**  $B < I > J = A \geq L, J \leq O$

**Conclusions: I.**  $A \geq O$

**II.**  $O \geq B$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q235. Statements:**  $M = N \leq O > P, O \geq E$

**Conclusions: I.**  $M \geq E$

**II.**  $E > P$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q236. Statements:**  $R > P \geq T < Y, W > T > X$

**Conclusions: I.**  $W > P$

**II.**  $Y > W$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

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**Q237. Statements:**  $A \leq K, N > C < T, X \geq N, X = O$

**Conclusions: I.**  $C < X$

**II.**  $N < O$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q238. Statements:**  $W \geq Y, Y < K, O = K, P < Y$

**Conclusions: I.**  $P < O$

**II.**  $P < W$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q239. Statements:**  $Y \geq M, M < K, C = K, O < M$

**Conclusions: I.**  $O < C$

**II.**  $O < Y$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Q240. Statements:**  $J \leq K, X > F < T, E \geq X, E = H$

**Conclusions: I.**  $F < E$

**II.**  $X < H$

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

**Directions (241-242): Study the information carefully and answer the questions given below.**

Point U is 3m west of point G, which is 8m north of point V. Point V is 4m east of point B. Point B is 9m south of point H. Point H is 2m west of point L. Point L is 6m north of point C. Point C is 7m east of point M.

**Q241. What is the shortest distance between point U and Point M?**

- (a)  $2\sqrt{18}$ m
- (b)  $\sqrt{61}$ m
- (c)  $\sqrt{63}$ m
- (d) 8m
- (e) None of these

**Q242. In which direction point C with respect to point V?**

- (a) North
- (b) North-west
- (c) North-east
- (d) South-west
- (e) None of these

**Directions (243-245): Study the information carefully and answer the questions given below.**

Seven persons A, B, C, D, E, F and G are sitting in a circular table. Some of them facing towards center and some of them facing away from center but not necessary in same order.

D sits third to the right of B. E sits immediate left of D. Two persons sit between B and G. A is immediate neighbor of C. A sits third to the right of F. Immediate neighbor of G face opposite direction to each other. G face towards the center. Neither G nor C face same direction as D. Not more than four-person face towards center.

**Q243. Who among the following person sits second to the right of C?**

- (a) F
- (b) D
- (c) E
- (d) G
- (e) None of these

**Q244. How many persons sit between A and E, when counted to the right of E?**

- (a) Two
- (b) Three
- (c) One
- (d) Four
- (e) None of these

**Q245. How many persons face outside the center?**

- (a) Four
- (b) Two
- (c) Three
- (d) Five
- (e) None of these

**Q246.** If all the digits in the number "8154276367" arranged in ascending order from left to right then how many numbers remains same in their position?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Q247.** If 'A × D' mean 'D is the sister of A', 'A + D' means 'D is the daughter of A', 'A ÷ D' means 'A is the wife of D', and 'A-D' means 'A is brother of D' then how will 'K is mother of P' be denoted?

- (a)  $J - K \div P + L$
- (b)  $K + P + M \times J$
- (c)  $J - K \div L + P$
- (d)  $K - J \div L + P$
- (e) None of these

**Q248.** In a row Ram sits 23<sup>rd</sup> from the left end of the row and Aman sits 25<sup>th</sup> from the right end of the row. If there are 7 people sit in between Ram and Aman then find out how many people sit in the row?

- (a) 54
- (b) 47
- (c) 52
- (d) 60
- (e) Can't be determined

**Q249.** How many pairs of letters are there in the word "VALUATION" each of which have as many letters between them (both forward and backward directions) in the word as they have between them in the English alphabetical series?

- (a) None
- (b) Two
- (c) Three
- (d) More than three
- (e) None of these

**Q250.** Pointing towards photograph a person said "This girl is daughter in law of my father". That person has no brother. How is person related to that girl?

- (a) Father
- (b) Father-in-law
- (c) Grandfather
- (d) Son
- (e) None of these

**Directions (251-253): Study the information carefully and answer the questions given below.**

Six persons M, N, O, P, Q, and S are different weight. P is heavier than N. M is lighter than S. Q is heavier than N. M is not lighter than P and Q. S is not heaviest, and Q is not second lightest. The weight of heaviest is 70kg.

**Q251.** Who among the following person is third heaviest?

- (a) M
- (b) S
- (c) P
- (d) Q
- (e) Can't be determined

**Q252.** Who among the following is the lightest person?

- (a) M
- (b) N
- (c) Q
- (d) P
- (e) None of these

**Q253.** If weight of M is 67kg what may be the weight of S?

- (a) 60kg
- (b) 63kg
- (c) 61kg
- (d) 69kg
- (e) None of these

**Q254.** If in the number 39475132, 2 is multiply to each of the digit which is less than 4 and 3 is subtracted from each of the digit which is more than 4 and equal to 4 then how many digits are repeating in the number thus formed?

- (a) None
- (b) Four
- (c) One
- (d) Three
- (e) Two

**Q255.** If all the letters in the word CONSTITUTION are arranged in alphabetical order from left to right, then how many alphabets remains same in their position?

- (a) Three
- (b) One
- (c) None
- (d) Two
- (e) four

**Directions (256-260): Study the information carefully and answer the questions given below.**

Eight people P, Q, R, S, T, U, V, and W are going on holiday on two different dates i.e., 5 and 8 in four different months i.e., January, March, April and May but not necessarily in the same order.

V goes on the 5<sup>th</sup> of April. Two persons are going in between V and P. More than two persons are going between U and S. U goes just after R but not in the same month. More than Four persons are going between S and W. None of them goes in the month which has an even number of days. More than one person goes between W and Q. T does not go in March.

**Q256.** Who among the following person goes on 8<sup>th</sup> march?

- (a) U
- (b) Q
- (c) R
- (d) T
- (e) None of these

**Q257.** How many persons are going between T and S?

- (a) Four
- (b) One
- (c) Two
- (d) None
- (e) Three

**Q258.** Who among the following person goes just before V?

- (a) T
- (b) R
- (c) W
- (d) U
- (e) None of these



**Q259.** Four of the following five are alike in a certain and form a group, find the one who does not belong to that group?

- (a) R
- (b) Q
- (c) U
- (d) T
- (e) P

**Q260.** Which of the following pair of persons goes in May?

- (a) W, P
- (b) U, W
- (c) S, P
- (d) U, S
- (e) None of these

**Directions (261-265):** In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- (a) Only II follows.
- (b) Either I or II follows
- (c) Both I and II follow
- (d) Only I follow.
- (e) Neither I nor II follows

**Q261. Statements:** Some Smart is Clever

Only a few Clever is Sharp

Only Sharp is Quick

**Conclusions: I.** All Sharp is Clever is a possibility.

**II.** All Clever is Smart is a possibility.

**Q262. Statements:** All Movie are Action

All Action are Comedy

Only a few Action is Good

**Conclusions: I.** All Movie is Good is a possibility

**II.** Some Comedy is Good is a possibility

**Q263. Statements:** No Image is Art.

Only a few Art is Photo

Some Image is Colour.

**Conclusions: I.** All Art is Colour is a possibility

**II.** Some Photo is Image is a possibility

**Q264. Statements:** All Lock is Key.

Only a few Lock is Door

All Door is Gate.

**Conclusions: I.** All Key is Door is a possibility

**II.** Some Gate is Lock is a possibility

**Q265. Statements:** All White is Pink

No Black are Brown

All Black is Pink

**Conclusions: I.** All Brown is White

**II.** No Brown is White

**Q266.** E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E?

- (a) Brother
- (b) Uncle
- (c) Father-in-law
- (d) Brother-in-law
- (e) None of these

**Directions (267-269):** Study the information carefully and answer the questions given below.

Seven persons i.e., P, Q, R, S, T, U and V are in the family of four-generation with one married couple. There are three female members of the family. V is the mother of T who is grandmother of S. R is son of the one who is daughter in law of P. R has two children. S is female and she is not sister of Q.

**Q267.** Who among the following is grandson of V?

- (a) U
- (b) T
- (c) R
- (d) Q
- (e) None of these

**Q268.** Who among the following is mother-in-law of Q?

- (a) P
- (b) V
- (c) R
- (d) S
- (e) U

**Q269.** How is U related to T?

- (a) Grandson
- (b) Granddaughter
- (c) Father
- (d) Mother
- (e) None of these

**Q270.** If 'P + Q' means 'P is the father of Q', 'P × Q' means 'P is the brother of Q'; 'P - Q' means 'P is the mother of Q', then which of the following is definitely true about X - Z + Y?

- (a) Y is the son of Z
- (b) Z is the son of X
- (c) Y is the father of Z
- (d) X is the mother of Y
- (e) None of these

**Directions (271-273):** Study the information carefully and answer the questions accordingly.

Seven persons in a family. There are two married couples and three generations in this family. Latika is the daughter-in-law of David. Chitra is not the nephew of Jiya. Gagan is the mother of Karan. Karan is the brother of Jiya and the father of Hemant. Jiya is the sister-in-law of Latika and is unmarried. David is the grandfather of Chitra. Hemant is a male member of the family.

**Q271. How Hemant is related to Jiya?**

- (a) Niece
- (b) Nephew
- (c) Daughter
- (d) Son
- (e) Cannot be determined

**Q272. Find the incorrect statement.**

- (a) Gagan is the mother-in-law of Latika
- (b) Jiya is the daughter of David
- (c) Chitra is the granddaughter of Gagan
- (d) Hemant is the son of Latika
- (e) All are correct

**Q273. How is Chitra related to David?**

- (a) Grand Daughter
- (b) Grand father
- (c) Grand mother
- (d) Brother
- (e) Daughter

**Directions (274-276): Study the information given below and answer the questions based on it.**

Seven people A, B, C, D, E, F and G belong to the same family. It is a three-generation family. There are three couples in the family. F is the granddaughter of A. G is the mother of B. E is the sister-in-law of B. A has two sons. D is the aunt of F and sister-in-law of C. C is the father of F. E is wife of C.

**Q274. How is G related to C?**

- (a) Mother
- (b) Sister
- (c) Grandmother
- (d) Mother-in-law
- (e) None of these

**Q275. How is E related to A?**

- (a) Daughter
- (b) Son
- (c) Daughter-in-law
- (d) Mother
- (e) None of these

**Q276. How is B related to F?**

- (a) Father
- (b) Brother
- (c) Mother
- (d) Uncle
- (e) None of these

**Directions (277-279): Study the following information carefully and answer the given questions.**

In a three-generation family, there are eight members i.e., B, D, Y, K, U, T, M and W, with two married couples. T is the uncle of W who is the granddaughter of Y. U is the son-in-law of D who is the mother of T. Y has two children and only one is daughter among them. B is the sister-in-law of K and daughter of Y. K and M are not female. M is sibling of D. Both T and K are unmarried.

**Q277. If I is the father of K, then what is the relation of U with respect to I?**

- (a) Brother
- (b) Son-in-law
- (c) Son
- (d) Sister
- (e) None of the above

**Q278. If T has one son and one daughter, then how many members are in 2<sup>nd</sup> and 3<sup>rd</sup> generation?**

- (a) Three
- (b) Six
- (c) Nine
- (d) Seven
- (e) Eight

**Q279. How is M related to T?**

- (a) Uncle
- (b) Father-in-law
- (c) Sister
- (d) Son
- (e) Father

**Directions (280-283): Study the following data carefully and answer the questions accordingly.**

There are nine members who belong to a family having three generations. There are three married couples. F and G are siblings. G is the only daughter of C and she is married. I is the Nephew of D. H has no child. C is the father-in-law of E who is not a male. D is the son of A who is the husband of B. D is the brother of E. H is the brother-in law of F.

**Q280. How F is related to I?**

- (a) Grandfather
- (b) Sister
- (c) Uncle
- (d) Father
- (e) None of these

**Q281. Who is the maternal grandfather of I?**

- (a) C
- (b) B
- (c) A
- (d) D
- (e) Can't be determined

**Q282. How E is related to B?**

- (a) Son-in-law
- (b) Daughter-in-law
- (c) Daughter
- (d) Sister
- (e) None of these

**Q283. How D is related to F?**

- (a) Son
- (b) Brother
- (c) Sister-in-law
- (d) Brother-in-law
- (e) None of these



**Directions (284-285): Study the following information carefully and answer the questions accordingly.**

There are six members in a family with two generations. Farah is the sister-in-law of Gita who is the mother of Eshan. Divya has no sister-in-law. Chirag is the father-in-law of Divya. Hanu is the brother of Eshan who is unmarried. Farah is unmarried.

**Q284. How Hanu is related to Divya?**

- (a) Uncle
- (b) Son
- (c) Brother
- (d) Husband
- (e) None of these

**Q285. How Chirag is related to Eshan?**

- (a) Aunt
- (b) Uncle
- (c) Father
- (d) Mother
- (e) None of these

**Directions (286-290): In the question below three statements are given followed by the conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

**Q286. Statements:** Only a few Peacocks are Ostrich.

Only a few Rats are Swans.

Some Swans are Peacocks.

**Conclusions: I.** Some Rats can be Ostrich.

**II.** All Swans being Ostrich is a possibility.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q287. Statements:** All Boards are Tube lights.

Only a few Wires are Boards.

All Switches are Boards.

**Conclusions: I.** All wires being Switches is a possibility.

**II.** Some Switches being Wires is a possibility.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q288. Statements:** Some Eagles are Pigeons.

Only a few Parrots are Eagles.

All Parrots are Peacocks.

**Conclusions: I.** Some Peacocks can be Pigeons.

**II.** No Eagles are Peacocks.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q289. Statements:** All Cats are Dogs.

Only a few Dogs are Rabbits.

All Rabbits are Rats.

**Conclusions: I.** Some Cats are Rats.

**II.** No Cats are Rats.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q290. Statements:** All Animals are foods.

Only a few Birds are Humans.

All foods are Humans.

**Conclusions: I.** Some Birds are not Humans.

**II.** No Animals are Humans.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Directions (291-298): In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.**

**Q291. Statements:**  $Y = T \geq S$ ,  $X < V = D$ ,  $P < M \geq Y$ ,  $S \geq E \geq X$

**Conclusions: I.**  $M > X$

**II.**  $M = X$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q292. Statements:**  $F \leq W > S$ ,  $T < Z \leq R = F$ ,  $S \geq V = H > I$

**Conclusions: I.**  $Z \leq W$

**II.**  $W > I$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q293. Statements:**  $Y = T \leq S$ ,  $C \geq U < N$ ,  $H > G \leq Y$ ,  $S > D = C$

**Conclusions: I.**  $G \leq D$

**II.**  $S > U$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q294. Statements:**  $R \leq S, C = D < R, A > E \geq C, S = T > P$

**Conclusions: I.**  $E \geq R$

**II.**  $C < T$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q295. Statements:**  $S \geq R \leq V; U < M = R; N = H \geq M > G$

**Conclusions: I.**  $S > H$

**II.**  $M = V$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q296. Statements:**  $D = R < G; A \leq C \geq E; U > R \geq P = N$

**Conclusions: I.**  $D = N$

**II.**  $G < U$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q297. Statements:**  $Q = O < D \leq E > R \geq N; S > D; W > E$

**Conclusions: I.**  $S \leq N$

**II.**  $W > Q$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q298. Statements:**  $A < T; S > E; N = L > S \geq T < C \leq M$

**Conclusions: I.**  $L > A$

**II.**  $L \leq A$

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Directions (299-300):** In each question below, some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows/follow from the given statements, disregarding commonly known facts.

**Q299. Statements:** Only a few juice are mixture.

No mixture is common.

No pure is common.

**Conclusions: I.** All juice can never be mixture.

**II.** Some mixture is pure.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

**Q300. Statements:** Only a few engines are empty.

Some empty are packed.

No fruits is packed.

**Conclusions: I.** All engines can be empty.

**II.** All packed being engines is a possibility.

- (a) Only I follows
- (b) Only II follows
- (c) Either I or II follows
- (d) Neither I nor II follows
- (e) Both I and II follow

## Solutions

**Solutions (1-15):**

**S1. Ans.(d)**

**Sol. I.**  $X < G$  - False

**II.**  $Z > Y$  - False

**S2. Ans.(e)**

**Sol. I.**  $F < S$  - True

**II.**  $T > P$  - True

**S3. Ans.(e)**

**Sol. I.**  $Q > L$  - True

**II.**  $K < Y$  - True

**S4. Ans.(d)**

**Sol. I.**  $R > M$  - False

**II.**  $S > T$  - False

**S5. Ans.(c)**

**Sol. I.**  $A > Q$  - False

**II.**  $Q = A$  - False

**S6. Ans.(a)**

**Sol. I.**  $W \leq T$  - True

**II.**  $Y = R$  - False

**S7. Ans.(e)**

**Sol. I.**  $P > T$  - True

**II.**  $J < X$  - True

**S8. Ans.(d)**

**Sol. I.**  $U > X$  - False

**II.**  $E \geq Q$  - False

**S9. Ans.(c)**

**Sol. I.**  $M > K$  - False

**II.**  $M = K$  - False

**S10. Ans.(b)**

**Sol. I.**  $I \leq H$  - False

**II.**  $S < W$  - True

S11. Ans.(a)

Sol. I.  $S > L$  - True

II.  $C > T$  - False

S12. Ans.(a)

Sol. I.  $U > Y$  - True

II.  $T > U$  - False

S13. Ans.(a)

Sol. I.  $Y \geq R$  - True

II.  $Y > R$  - False

S14. Ans.(e)

Sol. I.  $L > T$  - True

II.  $F > S$  - True

S15. Ans.(c)

Sol. I.  $Y = W$  - False

II.  $Y > W$  - False

Solutions (16-20):

$R(6) > M(5) > Q(2) > N(4) > P(1/3) > O(1/3)$

S16. Ans.(a)

S17. Ans.(d)

S18. Ans.(c)

S19. Ans.(b)

S20. Ans.(c)

Solutions (21-25):

S21. Ans.(e)

Sol. I.  $C < K$ (true)

II.  $A > M$ (true)

S22. Ans.(b)

Sol. I.  $T > O$ (false)

II.  $S < O$ (true)

S23. Ans.(b)

Sol. I.  $G > T$ (false)

II.  $U < N$ (true)

S24. Ans.(c)

Sol. I.  $D > M$ (false)

II.  $M \geq D$ (false)

S25. Ans.(a)

Sol. I.  $Z > E$ (true)

II.  $U < O$ (false)

TEST SERIES  
BILINGUAL  
VIDEO SOLUTIONS



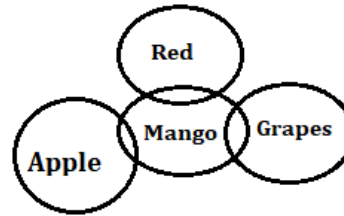
**IBPS 2023  
RRB PO  
PRELIMS + MAINS**

**210+ TOTAL TESTS**

Solutions (26-30):

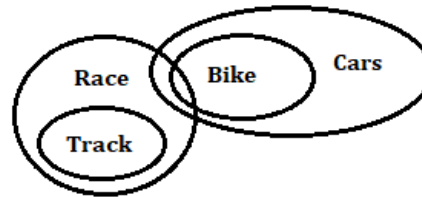
S26. Ans.(b)

Sol.



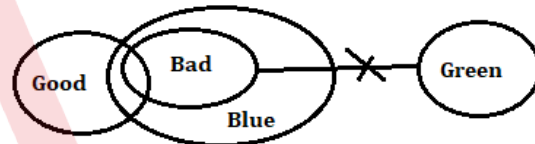
S27. Ans.(a)

Sol.



S28. Ans.(e)

Sol.



S29. Ans.(d)

Sol.

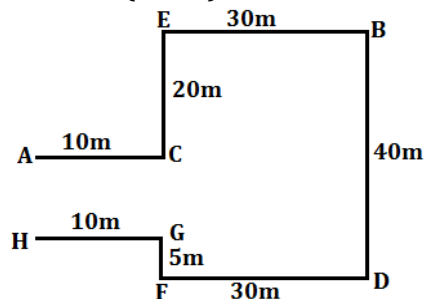


S30. Ans.(d)

Sol.



Solutions (31-32):

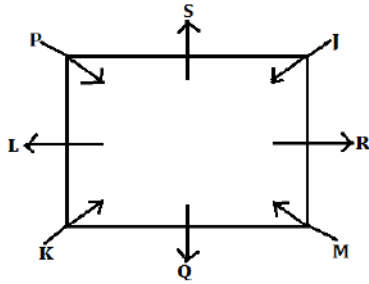


S31. Ans.(c)

S32. Ans.(c)

Sol.  $40m - (20m + 5m) = 40m - 25m = 15m$

**Solutions (33-37):**



S33. Ans.(b)

S34. Ans.(a)

S35. Ans.(d)

S36. Ans.(c)

S37. Ans.(b)

**Solutions (38-40):**

Box
V
Q
U
P
R
T
S
W

S38. Ans.(b)

S39. Ans.(c)

S40. Ans.(a)

**Solutions (41-45):**

Word	Code
Man/Play	fm/lb
For	ub
Improve	pd
Boy	qb
Help	gb
Other	ty
By	fd
Work	nu
See/Done	Vf/mb

S41. Ans.(e)

S42. Ans.(b)

S43. Ans.(d)

S44. Ans.(c)

S45. Ans.(e)

**Solutions (46-50):**

Days	Persons
Monday	J
Tuesday	X
Wednesday	K
Thursday	Y
Friday	L
Saturday	Z
Sunday	M

S46. Ans.(b)

S47. Ans.(a)

S48. Ans.(c)

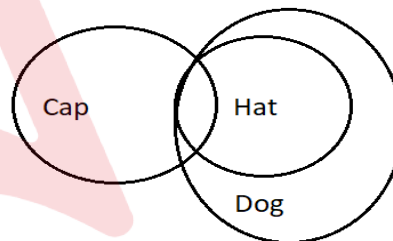
S49. Ans.(d)

S50. Ans.(a)

**Solutions (51-55):**

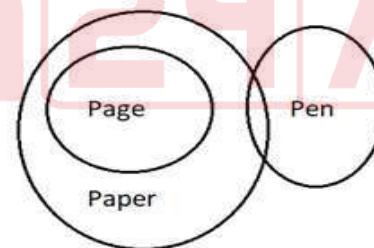
S51. Ans.(a)

Sol.



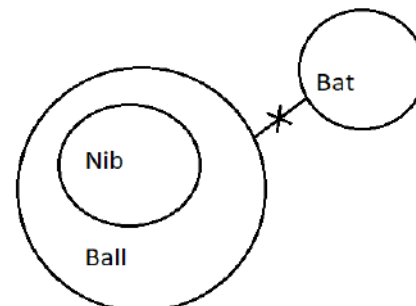
S52. Ans.(b)

Sol.

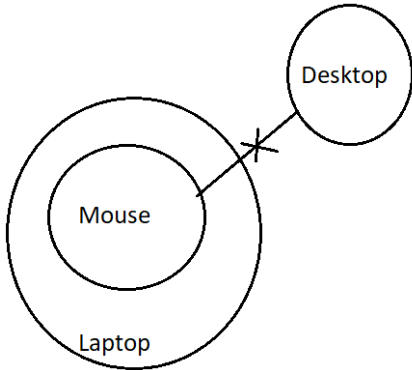


S53. Ans.(a)

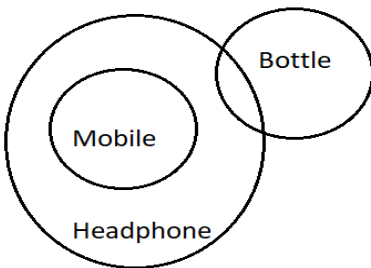
Sol.



S54. Ans.(b)  
Sol.



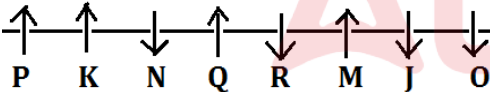
S55. Ans.(d)  
Sol.



Solutions (56-60):

- S56. Ans.(a)
- S57. Ans.(e)
- S58. Ans.(d)
- S59. Ans.(c)
- S60. Ans.(d)

Solutions (61-65):



- S61. Ans.(b)
- S62. Ans.(d)
- S63. Ans.(b)
- S64. Ans.(a)
- S65. Ans.(b)

Solutions (66-70):

- S66. Ans.(e)
- S67. Ans.(e)
- S68. Ans.(c)
- S69. Ans.(c)
- S70. Ans.(a)
- S71. Ans.(a)

S72. Ans.(d)  
Sol. TRANSPORT  
ANOPRRSTT

S73. Ans.(e)  
Sol. PR20

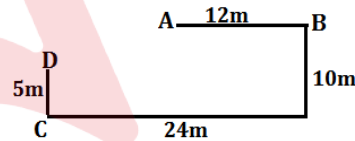
S74. Ans.(d)

S75. Ans.(c)

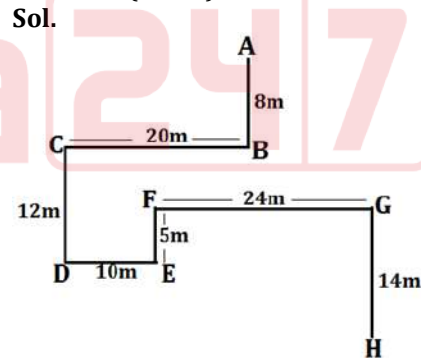
Solutions (76-80):

Date	15th	20th
Month		
August	H	G
September	A	B
October	D	C
November	F	E

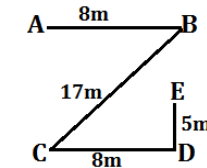
- S76. Ans.(a)
- S77. Ans.(b)
- S78. Ans.(d)
- S79. Ans.(d)
- S80. Ans.(b)
- S81. Ans.(c)



Solutions (82-84):



- S82. Ans.(c)
- S83. Ans.(b)
- S84. Ans.(d)
- S85. Ans.(b)



**Solutions (86-90):**

**S86. Ans.(a)**

**Sol. I.**  $W < S$  (True)

**II.**  $W \leq Q$  (False)

**S87. Ans.(d)**

**Sol. I.**  $E > G$  (False)

**II.**  $G > F$  (False)

**S88. Ans.(e)**

**Sol. I.**  $Y > U$  (True)

**II.**  $W \geq X$  (True)

**S89. Ans.(d)**

**Sol. I.**  $B \leq D$  (False)

**II.**  $L < H$  (False)

**S90. Ans.(c)**

**Sol. I.**  $P > R$  (False)

**II.**  $R = P$  (False)

**Solutions (91-95):**

**S91. Ans.(a)**

**Sol.** Clearly, sixth to the right of thirteenth from the right end means  $(13-6) = 7$ th (Last action) from right end i.e., D.

**S92. Ans.(b)**

**Sol.** Thus, there is only one such symbol i.e.,  $\Omega$  E.

**S93. Ans.(d)**

**Sol.** Thus, there is three such symbol i.e., 3 Z  $\Delta$ , 9 B  $\delta$  and 1 Q  $\text{¥}$ .

**S94. Ans.(d)**

**Sol.** Thus, there is three such numbers i.e.,  $\delta 3$ ,  $\Delta 6$  and  $\delta 1$ .

**S95. Ans.(e)**

**Sol.** Clearly, 9 is ninth to the right of sixteenth from the left end.

**Solutions (96-100):**

**S96. Ans.(d)**

**Sol.** Clearly, two words (TAXI and EACH are meaningful words).

**S97. Ans.(d)**

**Sol.** Clearly, only 'CEKI' and 'EIDA' are the words having more than one vowel.

**S98. Ans.(b)**

**Sol.** Clearly, CDJI is 4th word from the right end.

**S99. Ans.(a)**

**Sol.** Clearly, there are six letters between D and K according to English alphabetical order.

**S100. Ans.(a)**

**Sol.** Clearly, three words having at least one vowel.

**Solutions (101-105):**

**S101. Ans.(b)**

**Sol.** Clearly, their sum is 34.

**S102. Ans.(a)**

**Sol.** Clearly, there are twenty-one letters between 'A' and 7th element from the right end.

**S103. Ans.(d)**

**Sol.** Clearly, there are five letters which are immediately preceded by and immediately followed by a symbol.

**S104. Ans.(b)**

**Sol.** Clearly, '\*' is thirteenth to the left of 'M'.

**S105. Ans.(a)**

**Sol.** Clearly, '&' is 11th to the left of 25th element from the left end.

**Solutions (106-110):**

**Sol.**

Box	Colour
W	Grey
R	Pink
T	Yellow
U	White
V	Red
P	Blue
S	Orange
Q	Green

**S106. Ans.(c)**

**S107. Ans.(e)**

**S108. Ans.(c)**

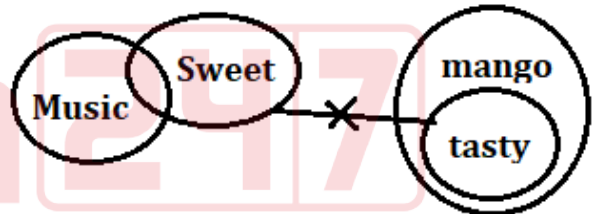
**S109. Ans.(c)**

**S110. Ans.(d)**

**Solutions (111-115):**

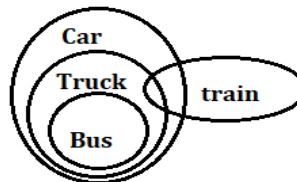
**S111. Ans.(a)**

**Sol.**



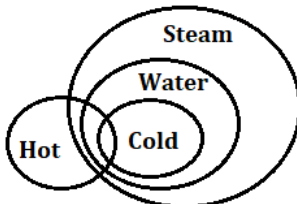
**S112. Ans.(c)**

**Sol.**



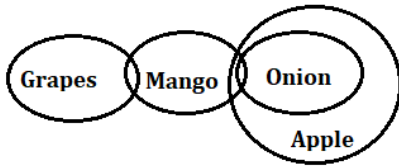
**S113. Ans.(e)**

**Sol.**



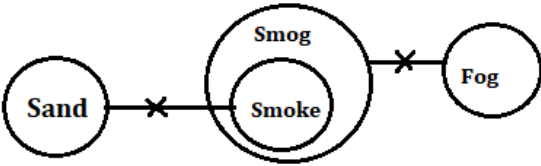
S114. Ans.(a)

Sol.



S115. Ans.(e)

Sol.



S116. Ans.(e)

Sol. Original Word- JOURNALISM  
After operation- AIOUJLMNRS

S117. Ans.(c)

Sol. Original number- 18397652  
Obtained number- 26475983

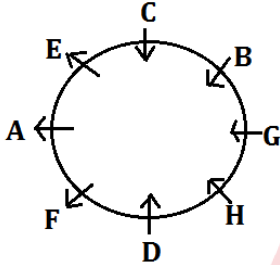
S118. Ans.(a)

Sol. Total number of persons in the row=  $(15+16-1) = 30$

S119. Ans.(a)

S120. Ans.(e)

Solutions (121-125):



S121. Ans.(c)

S122. Ans.(a)

S123. Ans.(d)

S124. Ans.(b)

S125. Ans.(c)

Solutions (126-130):

S126. Ans.(e)

Sol. I:  $O > S$  (True)      II:  $J < R$  (True)

S127. Ans.(e)

Sol. I:  $L > F$  (True)      II:  $C > P$  (True)

S128. Ans.(a)

Sol. I:  $P > T$  (True)      II:  $T > G$  (False)

S129. Ans.(b)

Sol. I:  $S > Z$  (False)      II:  $T > C$  (True)

S130. Ans.(c)

Sol. I:  $S = W$  (False)

II:  $W > S$  (False)

Solutions (131-135):

Word	Code
Easy	ka
Income	La
And	Pa
More	Zi
Search/Shot	Ho/ga
Command/Soft	Mo/ta
Only/part	Ne/ki

S131. Ans.(c)

S132. Ans.(e)

S133. Ans.(a)

S134. Ans.(e)

S135. Ans.(b)

Solutions (136-138):

S136. Ans.(a)

Sol. I:  $E \geq V$  (True)

II:  $G > V$  (False)

S137. Ans.(b)

Sol. I:  $D \geq A$  (False)

II:  $M > D$  (True)

S138. Ans.(c)

Sol. I:  $G > E$  (False)

II:  $E \geq G$  (False)

Solutions (139-141):

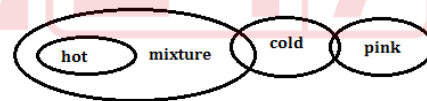
S139. Ans.(b)

Sol.



S140. Ans.(c)

Sol.



S141. Ans.(a)

Sol.



Solutions (142-146):

Boxes
G
B
E
F
H
D
A
C



S142. Ans.(c)

S143. Ans.(e)

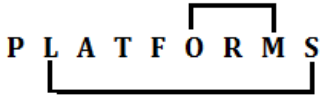
S144. Ans.(d)

S145. Ans.(a)

S146. Ans.(c)

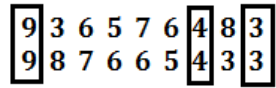
S147. Ans.(a)

Sol.



S148. Ans.(c)

Sol.



S149. Ans.(d)

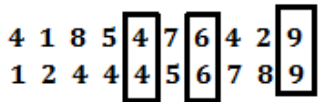
Sol. V > T > R > P > U

S150. Ans.(d)

Sol. Q > S > T > U > P > R

S151. Ans.(b)

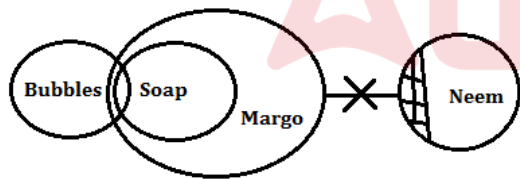
Sol.



Solutions (152-155):

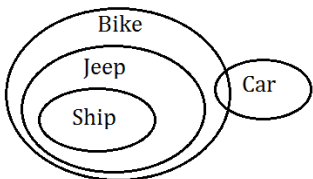
S152. Ans.(d)

Sol.



S153. Ans.(a)

Sol.



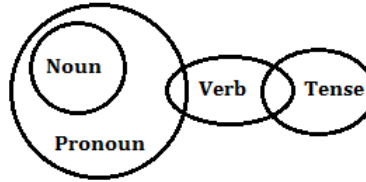
S154. Ans.(d)

Sol.



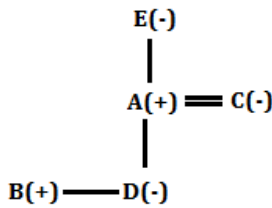
S155. Ans.(e)

Sol.

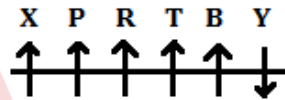


S156. Ans.(b)

Sol.



Solutions (157-161):



S157. Ans.(e)

S158. Ans.(c)

S159. Ans.(d)

S160. Ans.(a)

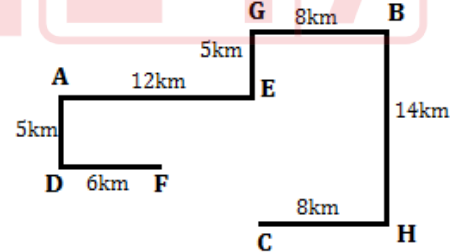
S161. Ans.(b)

Solutions (162-165):

S162. Ans.(c)

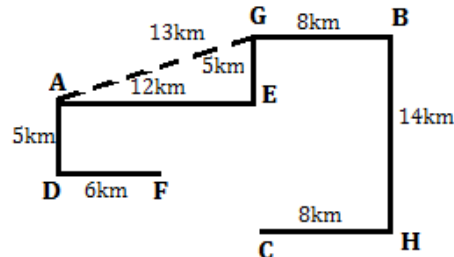
S163. Ans.(a)

Sol.



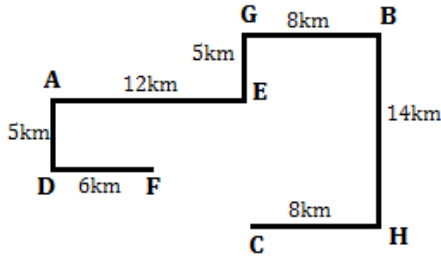
S164. Ans.(b)

Sol.



S165. Ans.(b)

Sol.



Solutions (166-170):

Word	Code
Forest	lf
Guide	si
Case	mo
Cliff	zn
Instant	oy/gn
Incident	iy
Present	gn/oy
Domestic	wn
Key/product	vw/gi

S166. Ans.(a)

S167. Ans.(e)

S168. Ans.(e)

S169. Ans.(c)

S170. Ans.(d)

S171. Ans.(b)

Sol. Given Word- INTERVATION  
After Arrangement- AEIINNORTTV

S172. Ans.(a)

Sol. B scored more than C, D or A.

S173. Ans.(b)

Sol. So, Total number of students = Rajiv position from left + Shivani position from right rearrangement - 1. So, 27 + 21 - 1 = 47

S174. Ans.(a)

Sol. 2nd, 4th, 6th and 8th letters = E, V, C, A  
Meaningful word = CAVE.

Solutions (175-177):

A > B > E > D > C > F > G

62kg

40kg

S175. Ans.(c)

S176. Ans.(e)

S177. Ans.(c)

S178. Ans.(a)

Sol.

THOUGHT  
□

S179. Ans.(d)

Sol. New word = XERIM

Meaningful words using X, E, R, I and M = Remix, Mixer.

S180. Ans.(a)

Sol.

□  
BACKSPACE

Solutions (181-185):

Days	Persons
Monday	B
Tuesday	D
Wednesday	A
Thursday	C
Friday	Holiday
Saturday	E
Sunday	F

S181. Ans.(d)

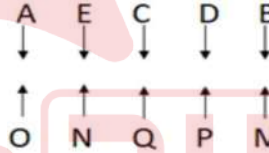
S182. Ans.(b)

S183. Ans.(b)

S184. Ans.(e)

S185. Ans.(c)

Solutions (186-190):



S186. Ans.(b)

S187. Ans.(b)

S188. Ans.(d)

S189. Ans.(b)

S190. Ans.(d)

Solutions (191-195):

Floor	Flat A	Flat B
4	M	S
3	T	O
2	J	F
1	Y	W

S191. Ans.(d)

S192. Ans.(d)

S193. Ans.(c)

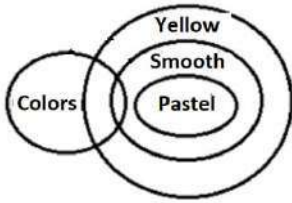
S194. Ans.(a)

S195. Ans.(e)

Solutions (196-210):

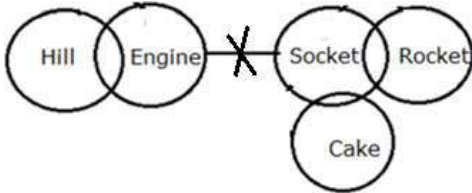
S196. Ans.(a)

Sol.



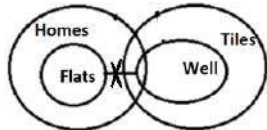
S197. Ans.(b)

Sol.



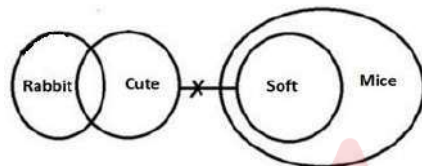
S198. Ans.(e)

Sol.



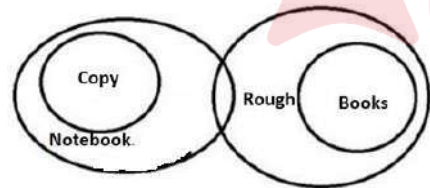
S199. Ans.(e)

Sol.



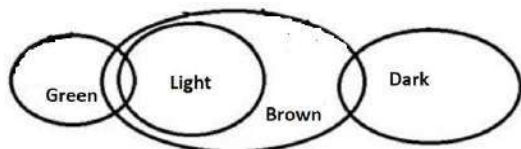
S200. Ans.(a)

Sol.



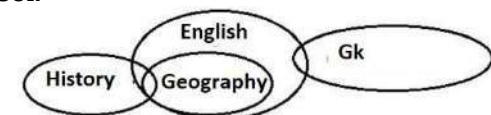
S201. Ans.(d)

Sol.



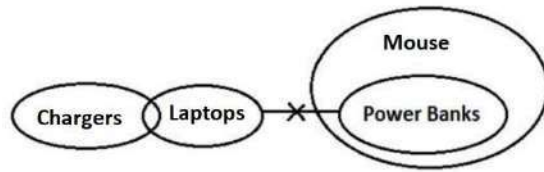
S202. Ans.(c)

Sol.



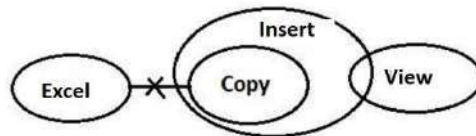
S203. Ans.(e)

Sol.



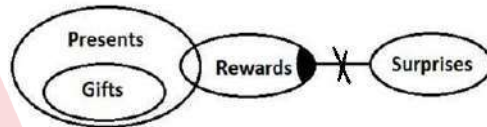
S204. Ans.(d)

Sol.



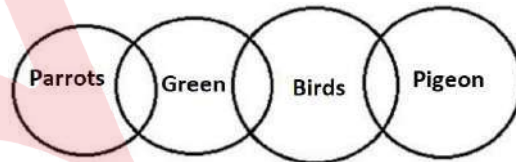
S205. Ans.(b)

Sol.



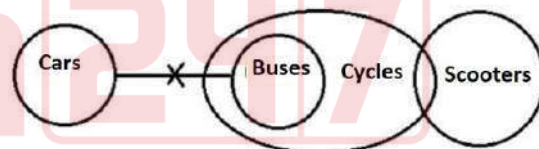
S206. Ans.(c)

Sol.



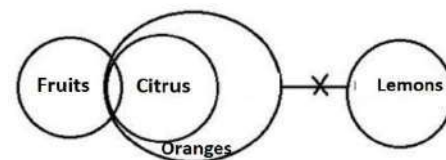
S207. Ans.(e)

Sol.



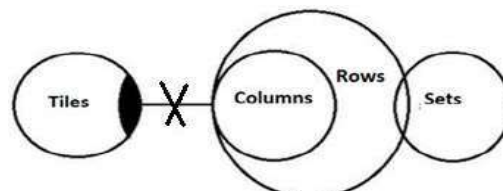
S208. Ans.(e)

Sol.



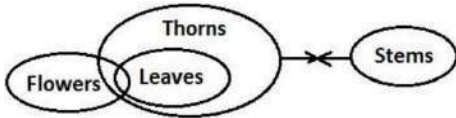
S209. Ans.(d)

Sol.



S210. Ans.(e)

Sol.



Solutions (211-215):

S211. Ans.(c)

Sol. After observation: @ B V @ F E \$ & A ! D % Q P % G \$ @ H N 1 2 6 6 6 8 9 9

Now, 19th element from the right end of the arrangement is !.

S212. Ans.(c)

Sol. \$1, &5, !5, \$ 6

S213. Ans.(e)

Sol. Clearly Q will be eight from the right end and 1 will be left end respectively.

S214. Ans.(a)

Sol. New Series- @ B V 2 6 9 8 @ F E \$ 1 & 8 5 A ! 5 8 9 8 D % Q P 6 % 8 G 5 \$ 6 @ H 8 N

Sixth element from the extreme right end = \$ "D" is 9th to the left of "\$". "%" is 5th to the right of "D".

S215. Ans.(c)

Sol. Now, if element which is fifth from the extreme left end is multiplied by the element which is fourth from the extreme right end = 6 \* 6 = 36.

Solutions (216-220):

Word	Code
Wealth	nt
Fast	ab
Brings	gp
Quantity	tq
Life	zx
Change	hp
Of	cn
People	rs
Smile	le
Cuddle	qp

S216. Ans.(b)

S217. Ans.(a)

S218. Ans.(d)

S219. Ans.(c)

S220. Ans.(e)

Solutions (221-225):

S221. Ans.(e)

Sol. Clearly, there is no such digit.

S222. Ans.(c)

Sol. Clearly, there are 3 such consonants.

S223. Ans.(c)

Sol. 19th element from the right end = I  
6th element to the right of I = W.

S224. Ans.(e)

Sol. Clearly, C3L does not belong to the group.

S225. Ans.(c)

Sol. 17th element from the left = W  
8th element to the left of W = N.

Solutions (226-240):

S226. Ans.(a)

Sol. I. M > L - True

II. V < B - False

S227. Ans.(e)

Sol. I. V > E - True

II. C < Y - True

S228. Ans.(d)

Sol. I. K ≤ N - False

II. P > I - False.

S229. Ans.(a)

Sol. I. N ≥ K - True

II. U ≤ R - False

S230. Ans.(a)

Sol. I. N > J - True.

II. T < R - False

S231. Ans.(b)

Sol. I. N < E - False

II. M < P - True.

S232. Ans.(b)

Sol. I. H > F - False

II. N > H - True

S233. Ans.(d)

Sol. I. K > S - False

II. H ≤ S - False

S234. Ans.(d)

Sol. I. A ≥ O - False

II. O ≥ B - False

S235. Ans.(d)

Sol. I. M ≥ E - False

II. E > P - False

S236. Ans.(d)

Sol. I. W > P - False

II. Y > W - False

S237. Ans.(a)

Sol. I. C < X - True

II. N < O - False

S238. Ans.(e)

Sol. I.  $P < O$  – True.  
 II.  $P < W$  – True.

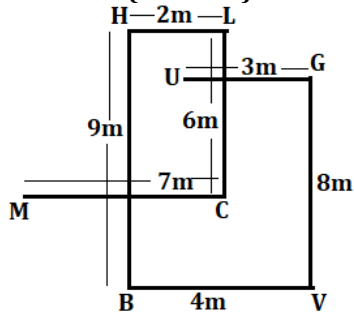
S239. Ans.(e)

Sol. I.  $O < C$  – True.  
 II.  $O < Y$  – True

S240. Ans.(a)

Sol. I.  $F < E$  - True  
 II.  $X < H$  - False.

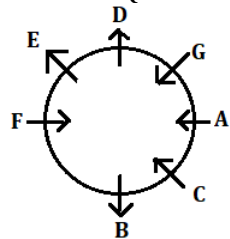
Solutions (241-242):



S241. Ans.(b)

S242. Ans.(b)

Solutions (243-245):



S243. Ans.(d)

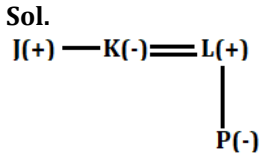
S244. Ans.(a)

S245. Ans.(c)

S246. Ans.(b)

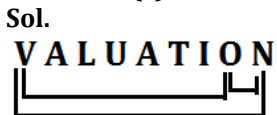
Sol. Original number: 8154276367  
 Obtained number: 1234566778

S247. Ans.(c)



S248. Ans.(e)

S249. Ans.(c)



S250. Ans.(e)

Sol. That person is husband of that girl.

Solution (251-253):

$O (70kg) > S > M > Q > P > N$

S251. Ans.(a)

S252. Ans.(b)

S253. Ans.(d)

S254. Ans.(d)

S255. Ans.(d)

Sol. Original Word- CONSTITUTION  
 After operation- CIINNOOSTTTU

Solutions (256-260):

Date	5 <sup>th</sup>	8 <sup>th</sup>
Month		
January	W	R
March	U	Q
April	V	T
May	S	P

S256. Ans.(b)

S257. Ans.(d)

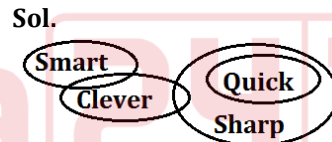
S258. Ans.(e)

S259. Ans.(c)

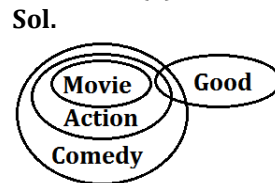
S260. Ans.(c)

Solutions (261-265):

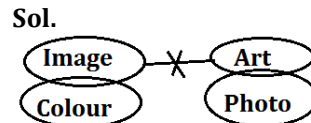
S261. Ans.(a)



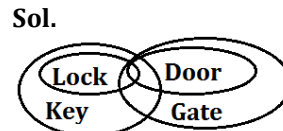
S262. Ans.(d)



S263. Ans.(c)

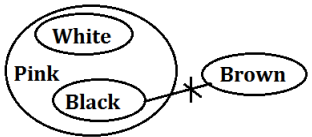


S264. Ans.(e)



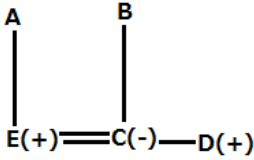
S265. Ans.(e)

Sol.



S266. Ans.(d)

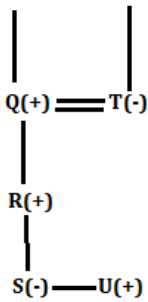
Sol.



Solutions (267-269):

P(+)

V(-)



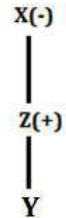
S267. Ans.(c)

S268. Ans.(b)

S269. Ans.(a)

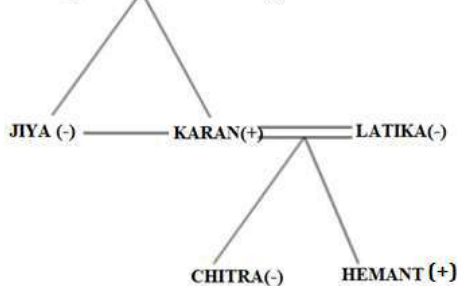
S270. Ans.(b)

Sol.



Solutions (271-273):

GAGAN (-) — DAVID(+)

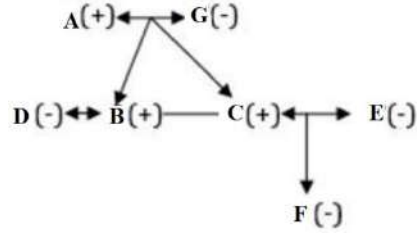


S271. Ans.(b)

S272. Ans.(e)

S273. Ans.(a)

Solutions (274-276):

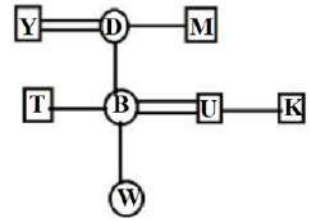


S274. Ans.(a)

S275. Ans.(c)

S276. Ans.(d)

Solutions (277-279)

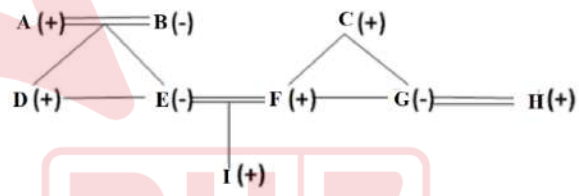


S277. Ans.(c)

S278. Ans.(d)

S279. Ans.(a)

Solutions (280-283):



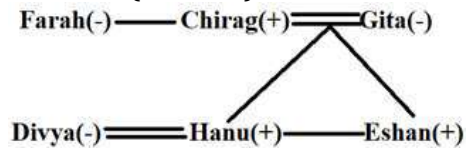
S280. Ans.(d)

S281. Ans.(c)

S282. Ans.(c)

S283. Ans.(d)

Solutions (284-285):



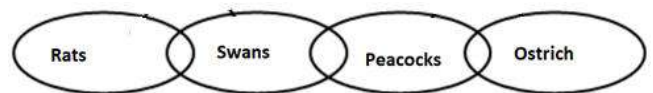
S284. Ans.(d)

S285. Ans.(c)

Solutions (286-290):

S286. Ans.(e)

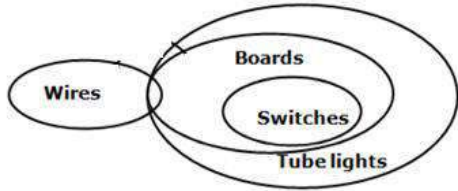
Sol.





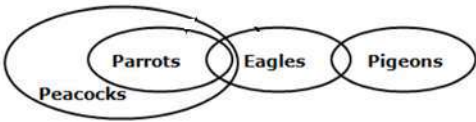
S287. Ans.(b)

Sol.



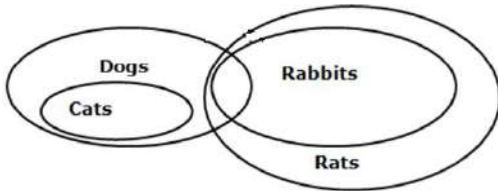
S288. Ans.(a)

Sol.



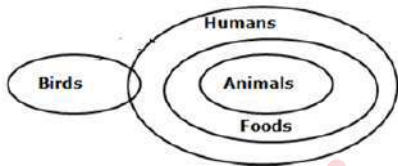
S289. Ans.(c)

Sol.



S290. Ans.(a)

Sol.



Solutions (291-298):

S291. Ans.(c)

Sol. I.  $M > X$  - False

II.  $M = X$  - False

So, either I or II follows.

S292. Ans.(e)

Sol. I.  $Z \leq W$  - True.

II.  $W > I$  - True.

S293. Ans.(b)

Sol. I.  $G \leq D$  - False.

II.  $S > U$  - True.

S294. Ans.(b)

Sol. I.  $E \geq R$  - False.

II.  $C < T$  - True.

S295. Ans.(d)

Sol. I.  $S > H$  - False

II.  $M = V$  - False.

S296. Ans.(d)

Sol. I.  $D = N$  - False

II.  $G < U$  - False.

S297. Ans.(b)

Sol. I.  $S \leq N$  - False

II.  $W > Q$  - True.

S298. Ans.(a)

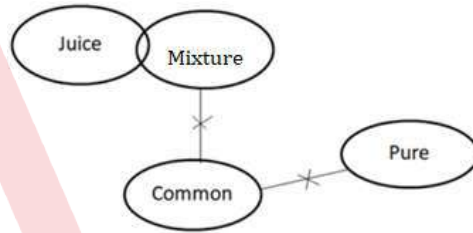
Sol. I.  $L > A$  - True.

II.  $L \leq A$  - False.

Solutions (299-300):

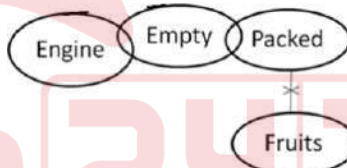
S299. Ans.(a)

Sol.



S300. Ans.(b)

Sol.



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## Quantitative Aptitude

**Directions (1-15):** What will come in place of question mark (?) in the following questions.

**Q1.**  $\sqrt{\frac{3840}{60} + \frac{1440}{40} - \frac{1330}{70}} = ?$

- (a) 10
- (b) 9
- (c) 8
- (d) 7
- (e) 11

**Q2.**  $25 \times 18 + \frac{4200}{40} - \frac{525}{105} = 740 - ?$

- (a) 200
- (b) 220
- (c) 190
- (d) 170
- (e) 150

**Q3.**  $3845 + 4380 + 2640 - 5965 = (?)^2$

- (a) 75
- (b) 60
- (c) 80
- (d) 70
- (e) 72

**Q4.**  $400 \div 20 \times 35 + 6666 \div 33 + ? = 1100$

- (a) 180
- (b) 198
- (c) 195
- (d) 205
- (e) 200

**Q5.**  $28 \times 14.5 + 1680 \div 15 + 445 = 1000 - ?$

- (a) 27
- (b) 37
- (c) 47
- (d) 50
- (e) 40

**Q6.**  $\left(\frac{4}{5} \text{ of } 25\right) \div \left(432 - 20^2 + \frac{3}{7} \text{ of } 21\right) \times (82) = ? \text{ of } \frac{1}{64}$

- (a) 50
- (b) 45
- (c) 35
- (d) 30
- (e) 40

**Q7.**  $55\% \text{ of } 900 + 70\% \text{ of } 1050 = ?\% \text{ of } 3000$

- (a) 41
- (b) 42
- (c) 43
- (d) 44
- (e) 45

**Q8.**  $73823 - 34156 + 4756 + 6758 - 9849 = 41499 - 160 - ?$

- (a) 5
- (b) 7
- (c) 4
- (d) 8
- (e) 6

**Q9.**  $\frac{5599}{1331} \times \frac{3773}{2036} \times \frac{88}{49} = ? - 6^2$

- (a) 44
- (b) 46
- (c) 48
- (d) 50
- (e) 52

**Q10.**  $84 \times \frac{1}{4} \div 21^2 + ? = \frac{7}{147} \times 21 - \frac{20}{21}$

- (a) 2
- (b) 1
- (c) 0
- (d) 3
- (e) 4

**Q11.**  $\sqrt{5776} - \sqrt{1444} + \sqrt{729} = 43 + ?$

- (a) 25
- (b) 20
- (c) 26
- (d) 24
- (e) 22

**Q12.**  $78 \times 26 \div 6 + 1262 = 1311 + (?)^2$

- (a) 17
- (b) 22
- (c) 15
- (d) 13
- (e) 19

**Q13.**  $1484 \div 28 + 1462 \div 34 - 12 \times 7 = ?$

- (a) 12
- (b) 14
- (c) 18
- (d) 16
- (e) 20

**Q14.**  $42.5 \times 15 + 37.5 \times 25 = 1420 + ?$

- (a) 145
- (b) 165
- (c) 155
- (d) 170
- (e) 185

**Q15.**  $2450 + 3760 - 3830 = 6000 - ?$

- (a) 3610
- (b) 3620
- (c) 3580
- (d) 3600
- (e) 3520

**Directions (16-30):** What approximate value will come in place of question mark (?) in the following questions. (You are not expected to find the exact value)

**Q16.**  $1749.98 \div 350 \times 49.79 + 111.03 = (?)^2$

- (a) 19
- (b) 39
- (c) 29
- (d) 9
- (e) 49

**Q17.**  $? \times 625.04 = 15625.01 + 9999.99$

- (a) 41
- (b) 25
- (c) 60
- (d) 12
- (e) 68

**Q18.**  $29.98\% \text{ of } 701 - 350.01 + 82\% \text{ of } 501 = ?$

- (a) 230
- (b) 290
- (c) 270
- (d) 250
- (e) 310

**Q19.**  $5759.99 \div 45.01 + 11.99 = ? \times 10.03$

- (a) 60
- (b) 2
- (c) 46
- (d) 30
- (e) 14

**Q20.**  $1395.98 + 412.04 - 2703.99 = ? - (31.02)^2$

- (a) 28
- (b) 45
- (c) 65
- (d) 85
- (e) 98

**Q21.**  $41.979 \times \frac{22}{7} + 19.989\% \text{ of } 530.014 - 26.021 = ?$

- (a) 244
- (b) 198
- (c) 236
- (d) 212
- (e) 252

**Q22.**  $(23.012 \times 22.989) + 20.985 \times 7.014 = ?^2$

- (a) 8
- (b) 38
- (c) 26
- (d) 12
- (e) 44

**Q23.**  $\sqrt{1443.979} \div 18.981 + 3.5 \times \sqrt{16.017} = (?)$

- (a) 16
- (b) 30
- (c) 8
- (d) 26
- (e) 10

**Q24.**  $779.98 \div 48.014 \times 15.989 = ?$

- (a) 280
- (b) 248
- (c) 275
- (d) 242
- (e) 260

**Q25.**  $1485.988 + 212.04 - 1703.99 = ? - (11.02)^2$

- (a) 95
- (b) 115
- (c) 130
- (d) 102
- (e) 135

**Q26.**  $\frac{125.98}{154.03} \times \frac{198.02}{17.99} - \frac{156.05}{101.98} \times \frac{51.03}{78.03} = ?$

- (a) 8
- (b) 25
- (c) 35
- (d) 50
- (e) 0

**Q27.**  $80.08\% \text{ of } 349.98 + 45.02\% \text{ of } 799.99 = ?\% \times 255.95$

- (a) 300
- (b) 270
- (c) 235
- (d) 250
- (e) 200

**Q28.**  $\sqrt{1224.99} \div 6.99 = ? - 1799.98$

- (a) 1600
- (b) 1810
- (c) 1950
- (d) 1710
- (e) 1900

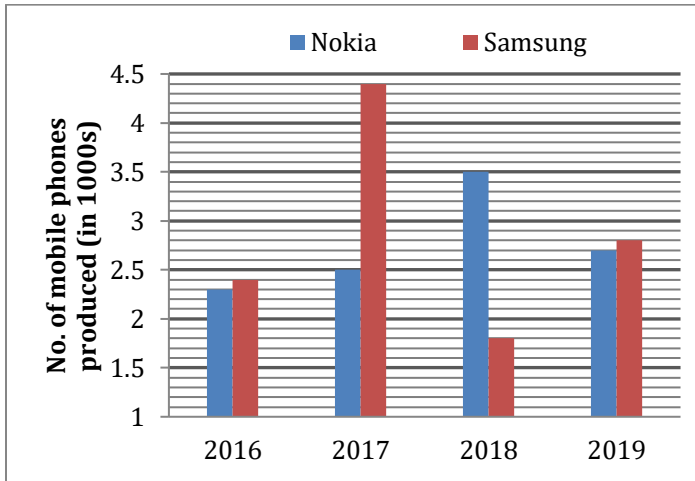
**Q29.**  $2744.98 - 1417.99 = ? + 987.98$

- (a) 369
- (b) 299
- (c) 119
- (d) 229
- (e) 339

**Q30.**  $?^2 = 44.99\% \text{ of } 4500.02 - 24.99\% \text{ of } 3959.98 + 87.01 \times 2.97$

- (a) 0
- (b) 16
- (c) 36
- (d) 56
- (e) 80

**Directions (31-35):** Given bar graph shows the production of mobile phones by Nokia & Samsung in 4 years. Study the data carefully and answer the questions.



**Q31.** How many mobile phones have been produced of Samsung over all the years?

- (a) 10800
- (b) 11600
- (c) 11400
- (d) 11000
- (e) 11200

**Q32.** Nokia mobiles produced in 2016 & 2017 together are how much more than Samsung mobiles produced in 2018 & 2019?

- (a) 800
- (b) 100
- (c) 400
- (d) 300
- (e) 200

**Q33.** Samsung mobiles produced in 2018 are what percent of Nokia mobiles produced in 2019?

- (a) None of these
- (b) 60%
- (c) 75%
- (d)  $66\frac{2}{3}\%$
- (e)  $68\frac{2}{3}\%$

**Q34.** What is the ratio of Nokia mobiles produced in 2016, 2017 & 2018 together to Samsung mobiles produced in 2016, 2017 & 2019 together?

- (a) 83:96
- (b) 35:32
- (c) 83:86
- (d) 96:83
- (e) None of these

**Q35.** In which year the increase in production was maximum as compared to previous year & for which company?

- (a) Nokia, 2017
- (b) Nokia, 2018
- (c) Samsung, 2019
- (d) Nokia, 2019
- (e) Samsung, 2017

**Directions (36-40):** What will come in place of question mark (?) in the following questions.

**Q36.**  $\left(\frac{4\frac{4}{5}\text{of}25}{48}\right) \div \left(\frac{5}{4}\text{of}32 + \frac{3}{7}\text{of}21\right) = ? \text{of} \frac{1}{49}$

- (a) 3.5
- (b) 3
- (c) 2.5
- (d) 4
- (e) 5

**Q37.**  $\sqrt{?}$  of 6 + 20% of 95 =  $\frac{1}{2}$  of 62

- (a) 3
- (b) 4
- (c) 5
- (d) 6
- (e) 7

**Q38.**  $\left(\frac{5}{3}\text{of}6\frac{3}{5}\text{of}\frac{9}{11}\right) + ?^2 = 45$

- (a) 5
- (b) 7
- (c) 4
- (d) 8
- (e) 6

**Q39.**  $\left(\frac{4}{7} \times \frac{14}{5} \div 2\right) - \left(\frac{3}{10}\text{of}?\right) = \frac{4}{5} - 3$

- (a) 10
- (b) 8
- (c) 9
- (d) 11
- (e) 12

**Q40.**  $4\frac{4}{5} + 2\frac{1}{15} - \frac{27}{5} = 2\frac{1}{5} \div 3 \times ?$

- (a)  $\frac{2}{9}$
- (b) 1
- (c) 2
- (d) 3
- (e)  $\frac{1}{9}$

**Directions (41-45):** What approximate value will come in place of question mark (?) in the following questions. (You are not expected to calculate the exact value)

**Q41.** 40.02% of 601 - 249.97 = ? - 69.98% of 910

- (a) 607
- (b) 627
- (c) 637
- (d) 617
- (e) 647

**Q42.**  $42001 \div 60 \times 29.95 = ? \times 41.99$

- (a) 540
- (b) 520
- (c) 500
- (d) 460
- (e) 480

**Q43.**  $(42.02)^2 + (6.98)^2 - (27.02)^2 = (33.01)^2 - ?$

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

**Q44.**  $\frac{699.97}{52} \div \frac{11}{207.99} \times \frac{121}{77.02} = ?$

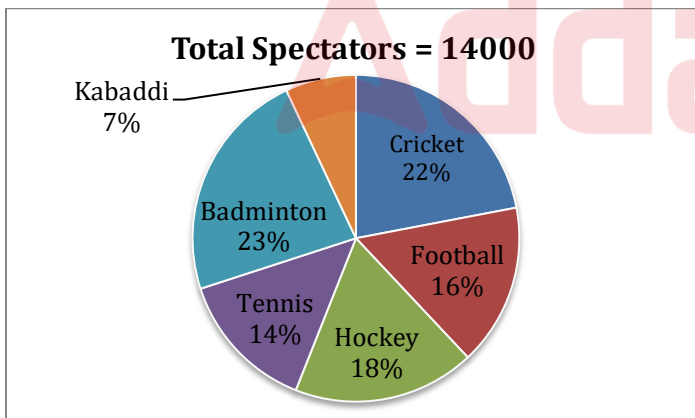
- (a) 400
- (b) 410
- (c) 390
- (d) 420
- (e) 380

**Q45.**  $29.97\% \text{ of } ? + \sqrt{399.81} = (14.98)^2 + 31.99$

- (a) 750
- (b) 730
- (c) 760
- (d) 790
- (e) 830

**Directions (46-50):** Study the charts given below carefully and answer the following questions.

Pie chart shows the percentage distribution of total Spectators of a particular city loving different sports as shown below.



**Q46.** Total spectators of Badminton and kabaddi together is what percentage of total spectators of cricket and hockey together ?

- (a) 70%
- (b) 75%
- (c) 80%
- (d) 65%
- (e) 60%

**Q47.** Find the ratio of total spectators of Football and tennis together to the total spectators of Cricket?

- (a) 17:12
- (b) 11:15
- (c) 15:11
- (d) 12:17
- (e) 13:18

**Q48.** Find the central angle of total spectators of badminton and tennis together?

- (a)  $79.2^\circ$
- (b)  $136.8^\circ$
- (c)  $115.2^\circ$
- (d)  $126^\circ$
- (e)  $133.2^\circ$

**Q49.** Out of total hockey spectators, male and female lovers are in the ratio 9: 6 respectively, then find difference between male and female spectators of hockey?

- (a) 524
- (b) 484
- (c) 336
- (d) 504
- (e) 472

**Q50.** Total spectators of cricket and football together is how much more/less than total spectators of badminton and tennis together?

- (a) 160
- (b) 140
- (c) 180
- (d) 200
- (e) None of these

**Directions (51-55):** What approximate value will come in place of question mark (?) in the following questions. (You are not expected to find the exact value)

**Q51.**  $43.495 \times \frac{64.02}{31.99} \times \frac{1}{28.979} - 2.012 = ?$

- (a) 4
- (b) 12
- (c) 6
- (d) 1
- (e) 8

**Q52.**  $(33.33 \times 80.989 \div 99.99) + 3.024 - ? = 4.012$

- (a) 20
- (b) 26
- (c) 34
- (d) 16
- (e) 40

**Q53.**  $20.021 + 4.969 + 30.499 - 50.022 = ?$

- (a) 5.5
- (b) 2
- (c) 8.5
- (d) 12.5
- (e) 14

**Q54.**  $995.013 - 39.976 \times 19.99 + 5.022 = 1.988 \times ?$

- (a) 115
- (b) 85
- (c) 100
- (d) 125
- (e) 75

**Q55.**  $(10.011)^2 + (23.989)^2 = 275.99 + (?)^2$

- (a) 34
- (b) 6
- (c) 28
- (d) 12
- (e) 20

**Directions (56-60):** What will come in place of question mark (?) in the following questions

**Q56.**  $\sqrt{256} \times \sqrt{169} + 3600 \div 12 = 800 - ?$

- (a) 312
- (b) 280
- (c) 292
- (d) 324
- (e) 296

**Q57.**  $37.5 \times 14 + 800 - (26)^2 + 136 = ?$

- (a) 785
- (b) 800
- (c) 810
- (d) 825
- (e) 765

**Q58.**  $5430 + 3780 - 6430 = 2260 + ?$

- (a) 530
- (b) 490
- (c) 500
- (d) 520
- (e) 510

**Q59.**  $2160 \div 12 + 5740 \div 14 - 3150 \div 15 + ? = 400$

- (a) 16
- (b) 32
- (c) 28
- (d) 24
- (e) 20

**Q60.**  $\sqrt{3481} \times 7 + \sqrt{5625} \times 4 = 500 + ?$

- (a) 213
- (b) 223
- (c) 203
- (d) 233
- (e) 243

**Directions (61-75):** What will come in place of question mark (?) in the following series questions?

**Q61.** 31, 33, 36, ?, 48, 59

- (a) 38
- (b) 37
- (c) 43
- (d) 41
- (e) 40

**Q62.** 6, 36, 180, 720, ?, 4320

- (a) 3600
- (b) 1080
- (c) 1440
- (d) 2880
- (e) 2160

**Q63.** 23, 29, ?, 41, 47, 53

- (a) 33
- (b) 35
- (c) 37
- (d) 36
- (e) 39

**Q64.** 1, 5, ?, 30, 55, 91

- (a) 13
- (b) 10
- (c) 9
- (d) 14
- (e) 18

**Q65.** 5, 10, 20, 35, 55, ?

- (a) 85
- (b) 75
- (c) 80
- (d) 70
- (e) 65

**Q66.** 280, 295, 325, 370, 430, ?

- (a) 515
- (b) 525
- (c) 505
- (d) 490
- (e) 520

**Q67.** 4, 2, 3, 7.5, ?, 118.125

- (a) 24.25
- (b) 28.25
- (c) 27.25
- (d) 25.25
- (e) 26.25

**Q68.** 18, 25, 30, ?, 42, 49

- (a) 37
- (b) 35
- (c) 39
- (d) 41
- (e) 43

**Q69.** 1, 2, 4, 8, ?, 32

- (a) 32
- (b) 24
- (c) 12
- (d) 16
- (e) 20

**Q70.** 121, ?, 169, 196, 225, 256

- (a) 148
- (b) 144
- (c) 140
- (d) 136
- (e) 132

**Q71.** 21, 22, ?, 35, 51, 76

- (a) 28
- (b) 23
- (c) 24
- (d) 26
- (e) 29

**Q72.** 128, ?, 32, 16, 8, 4

- (a) 64
- (b) 60
- (c) 68
- (d) 56
- (e) 72

**Q73.** 16, 22, 28, 34, 40, ?

- (a) 44
- (b) 46
- (c) 48
- (d) 42
- (e) 50

**Q74.** 1, 8, 27, ?, 125, 216

- (a) 68
- (b) 66
- (c) 62
- (d) 60
- (e) 64

**Q75.** 20, ?, 12, 19, 39, 98.5

- (a) 9
- (b) 10
- (c) 11
- (d) 24
- (e) 12

**Directions (76-90):** Find the wrong term in the following number series questions.

**Q76.** -5, -10, -15, -30, -45, -90, -180

- (a) -10
- (b) -30
- (c) -180
- (d) -45
- (e) -5

**Q77.** 5, 10, 30, 120, 600, 3000, 25200

- (a) 10
- (b) 600
- (c) 30
- (d) 3000
- (e) 25200

**Q78.** -12, -6, 2, 6, 12, 18, 24

- (a) 2
- (b) 6
- (c) -6
- (d) 18
- (e) 12

**Q79.** 599, 591, 580, 569, 557, 544, 530

- (a) 599
- (b) 557
- (c) 530
- (d) 591
- (e) 544

**Q80.** 700, 710, 675, 690, 660, 670, 640

- (a) 710
- (b) 675
- (c) 660
- (d) 690
- (e) 670

**Q81.** 110, 156, 210, 282, 342, 420, 506

- (a) 342
- (b) 282
- (c) 110
- (d) 420
- (e) 506

**Q82.** 2000, 2000, 1000, 3000, 600, 3750, 625

- (a) 1000
- (b) 3750
- (c) 625
- (d) 600
- (e) 3000



**Q83.** 2, 2, 5, 17, 72, 359, 2159

- (a) 72
- (b) 359
- (c) 5
- (d) 17
- (e) 2159

**Q84.** 9000, 7920, 7020, 6300, 5760, 5400, 5200

- (a) 5400
- (b) 9000
- (c) 6300
- (d) 7020
- (e) 5200

**Q85.** 100, 120, 154, 192, 248, 320, 410

- (a) 100
- (b) 248
- (c) 410
- (d) 154
- (e) 120

**Q86.** 132, 156, 182, 210, 235, 272, 306

- (a) 306
- (b) 132
- (c) 235
- (d) 272
- (e) 156

**Q87.** 100, 148, 220, 316, 436, 580, 752

- (a) 752
- (b) 220
- (c) 316
- (d) 100
- (e) 436

**Q88.** 12, 6, 6, 12, 48, 382, 6144

- (a) 6144
- (b) 6
- (c) 48
- (d) 382
- (e) 12

**Q89.** 140, 137, 131, 120, 110, 95, 77

- (a) 140
- (b) 120
- (c) 131
- (d) 77
- (e) 95

**Q90.** 16, 9, 10, 16, 34, 83.5, 251.5

- (a) 16
- (b) 10
- (c) 34
- (d) 83.5
- (e) 251.5

**Directions (91-105):** In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x < y$
- (d) if  $x \leq y$
- (e) if  $x = y$  or no relation can be established between  $x$  and  $y$ .

**Q91. I.**  $x^2 + 5x + 6 = 0$

**II.**  $y^2 + 9y + 14 = 0$

**Q92. I.**  $x^2 - 18x + 45 = 0$

**II.**  $y^2 + 12y - 45 = 0$

**Q93. I.**  $9x^2 + 11x + 2 = 0$

**II.**  $8y^2 + 6y + 1 = 0$

**Q94. I.**  $6x^2 + 5x + 1 = 0$

**II.**  $4y^2 - 15y = 4$

**Q95. I.**  $x^2 + 3x = 0$

**II.**  $x^2 + y = 10$

**Q96. I.**  $x^2 - 25x + 156 = 0$

**II.**  $y^2 - 29y + 210 = 0$

**Q97. I.**  $x^2 = 196$

**II.**  $y = \sqrt{196}$

**Q98. I.**  $x^2 + 12x + 35 = 0$

**II.**  $y^2 + 14y + 48 = 0$

**Q99. I.**  $3x^2 + 23x + 30 = 0$

**II.**  $y^2 + 15y + 56 = 0$

**Q100. I.**  $x^2 + 17x + 72 = 0$

**II.**  $y^2 + 13y + 42 = 0$

**Q101. I.**  $x^2 + 23x + 132 = 0$

**II.**  $y^2 + 21y + 110 = 0$

**Q102. I.**  $3x^2 + 20x + 32 = 0$

**II.**  $5y^2 + 23y + 24 = 0$

**Q103. I.**  $x^2 - 29x + 208 = 0$

**II.**  $y^2 - 21y + 108 = 0$

**Q104. I.**  $x^2 + 30x + 224 = 0$

**II.**  $y^2 + 35y + 306 = 0$

**Q105. I.**  $x = \sqrt[3]{4096}$

**II.**  $y^2 = 256$

**Q106.** A sum of Rs 1400 becomes Rs 2408 in 8 years at simple interest, then find the rate of interest for last 4 years, if the interest rate for 1<sup>st</sup> 4 years is 12% per annum ?

- (a) 8 %
- (b) 10 %
- (c) 6%
- (d) 4 %
- (e) None of these



**Q107.** A work is completed by P and Q together in 15 days. When a third person R joined them, then the work is completed in 9 days. In how many days, the work is completed by R alone?(in days)

- (a) 25
- (b) 20
- (c) 22.5
- (d) 30
- (e) 15

**Q108.** Ravi and Maanik started running simultaneously towards each other with speed in the ratio of 3:4. If the initial separation between is 4.2 km and they meet in 3 min, then what is the difference between their speeds?

- (a) 15 km/hr
- (b) 12 km/hr
- (c) 18 km/hr
- (d) 10 km/hr
- (e) 9 km/hr

**Q109.** A tank is normally filled in 15 hr but due to a leak in it, it takes 3 hrs more to be filled. if the tank is completely filled, then the leak will empty it in ?(in hrs)

- (a) 72
- (b) 84
- (c) 90
- (d) 60
- (e) 75

**Q110.** Suman is 25 years elder to his son. If 7 years hence, the ratio of ages of suman and his son will be 2:1, then how many years back from present suman's son was born?

- (a) 20 yrs
- (b) 24 yrs
- (c) 15 yrs
- (d) 18 yrs
- (e) None of these

**Q111.** Average of sum of four consecutive even numbers is 10 more than the average of sum of three consecutive odd numbers. If largest even number is twice the smallest odd number. Find average of all seven numbers.

- (a)  $22\frac{5}{7}$
- (b)  $20\frac{5}{7}$
- (c)  $18\frac{2}{7}$
- (d)  $24\frac{3}{7}$
- (e)  $23\frac{5}{7}$

**Q112.** Akshay buys an article and markup it 30 % above its cost price. At the time of sale, he gives 10% discount instead of 15% due to which he earns Rs. 13 more. Find cost price.

- (a) Rs. 230
- (b) None of these
- (c) Rs. 150
- (d) Rs. 130
- (e) Rs. 200

**Q113.** A child in a trade fair asked for 2 balloons of different color. The vendor picked 2 balloons from a pack having 20 red & 10 blue balloons. Find the probability that wish of child would be fulfilled.

- (a)  $\frac{40}{87}$
- (b)  $\frac{1}{15}$
- (c)  $\frac{1}{29}$
- (d)  $\frac{1}{10}$
- (e)  $\frac{1}{5}$

**Q114.** How many words can be formed with the letter of the word MONSTROUS such that no two vowels come together?

- (a) 525
- (b) 6300
- (c) 3150
- (d) 1575
- (e) None of these

**Q115.** Sanjay starts from his home to reach office at uniform speed of 5 kmph. After 20 minutes, Anurag starts cycling at uniform speed of 12 kmph in same direction from same point. At what distance, he will catch Sanjay? (approx)

- (a) 7 km
- (b) 4 km
- (c) 5 km
- (d) 2 km
- (e) 3 km

**Q116.** The perimeter of 4 squares is 24 cm, 32 cm, 40 cm, 48 cm respectively. What will be the area of the square having perimeter equal to sum of edges of 4 squares? (in sq.cm.)

- (a) 64
- (b) 81
- (c) 100
- (d) 121
- (e) 144

**Q117.** A sum of Rs. x was invested at 10% simple interest for 3 years. If the same sum was invested at 4% more for same period, then it would have fetched Rs. 120 more. Find the value of 5x. (in Rs.)

- (a) 5000
- (b) 4800
- (c) 3600
- (d) 5500
- (e) 4000

**Q118.** A man & a woman receives Rs. 1000 for work of 8 days. If a man is 4 times efficient than a woman. Find the daily wage received by a woman.

- (a) Rs. 20
- (b) Rs. 25
- (c) Rs. 21
- (d) Rs. 26
- (e) Rs. 27

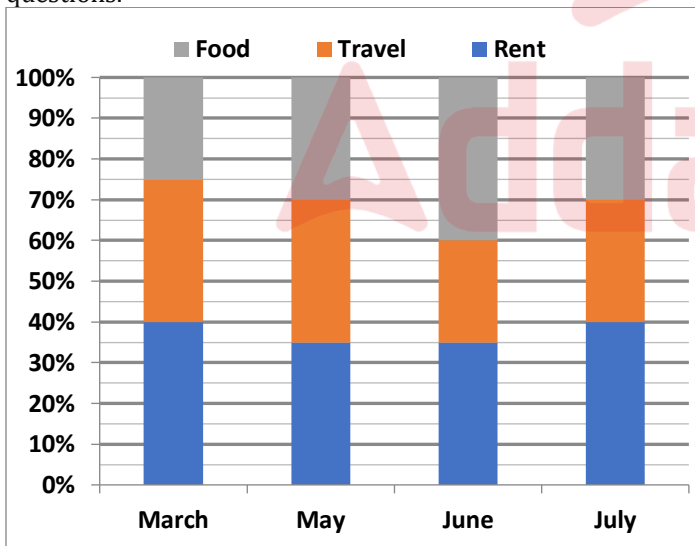
**Q119.** In an examination, Karan got 25% more marks than Sanjay who got 20% less marks than Mahesh who got 30% more marks than Anurag. Marks obtained by Karan are what percent more than marks obtained by Anurag?

- (a) 20%
- (b) 26%
- (c) 40%
- (d) 30%
- (e) 25%

**Q120.** In a class, the ratio of passed students to failed students is 9:1. If 6 more students have failed among the total students mentioned of the same class, then this ratio would be 21 : 4. Find the total no. of students in the class.

- (a) 90
- (b) 100
- (c) 99
- (d) 110
- (e) 80

**Directions (121-125):** Given bar graph shows the data of expenses (in % distribution) of Mr. Chunky in 4 months on rent, travel & food. Study the graph carefully and answer the questions.



**Q121.** If salary of Mr. Chunky is Rs. 12000 in July and his savings is half of his expenditure on rent. Find his expenditure on food. (in Rs.)

- (a) 3500
- (b) 2000
- (c) 4000
- (d) 3000
- (e) 4500

**Q122.** If savings and salary of Mr. Chunky are same for all the given months then expenditure on travel in March is what percent of expenditure on food in June?

- (a) 87.5%
- (b) 85%
- (c) 90%
- (d) 92.5%
- (e) None of these

**Q123.** If ratio of total expenditure in May & July is 5:4. Find ratio of expenditure on rent in May to expenditure on travel in July.

- (a) 3:2
- (b) 6:7
- (c) 7:6
- (d) 24: 35
- (e) 35: 24

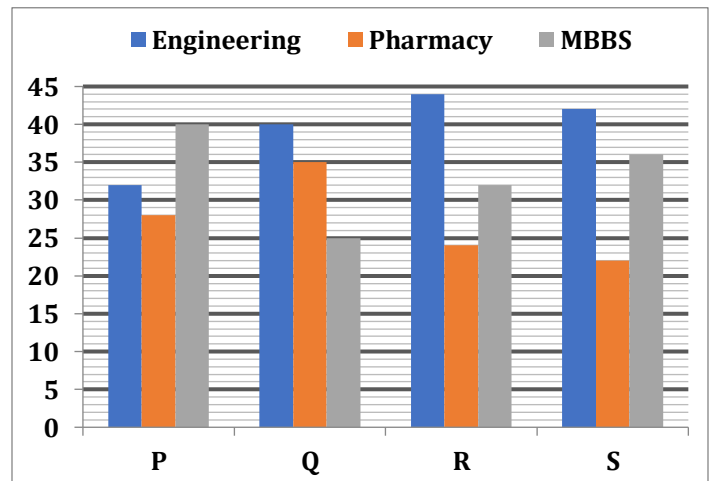
**Q124.** Income of Chunky in March & July is Rs. 5000 & Rs. 8000 of which he saves only 10% in each month. What is his average expenditure on rent in these 2 months?

- (a) Rs.2400
- (b) Rs.2300
- (c) Rs. 2340
- (d) Rs.2430
- (e) Rs.2360

**Q125.** Expenditure on travel in May is what percent more than expenditure on travel in July if total expenditure for both the months is same?

- (a) 15%
- (b) 12.5%
- (c) 16.67%
- (d) 20%
- (e) 10%

**Directions (126-130):** Given bar graph shows the percentage distribution of total number of students of each school (P, Q, R & S) who took admission in 3 different streams. Total students in P, Q, R & S are 700, 800, 400 & 900 respectively.



**Q126.** What is average number of students who have opted for MBBS in all the 4 colleges?

- (a) 256
- (b) 233
- (c) 284
- (d) 224
- (e) 296

**Q127.** What is the ratio of the total number of student who have opted for both engg. and MBBS stream together in college Q to that of in same stream together in college R?

- (a) 38:65
- (b) 67:35
- (c) 35:67
- (d) 65:38
- (e) 29:37

**Q128.** The number of student who have opted for MBBS in college P is what percent of the number of students who have opted for the engg. in college Q?

- (a) 87.5%
- (b) 50%
- (c) 75%
- (d) 100%
- (e) 62.5%

**Q129.** What is the ratio of the no. of students who have opted for engg. in college R to that of those who have opted for same stream in college P?

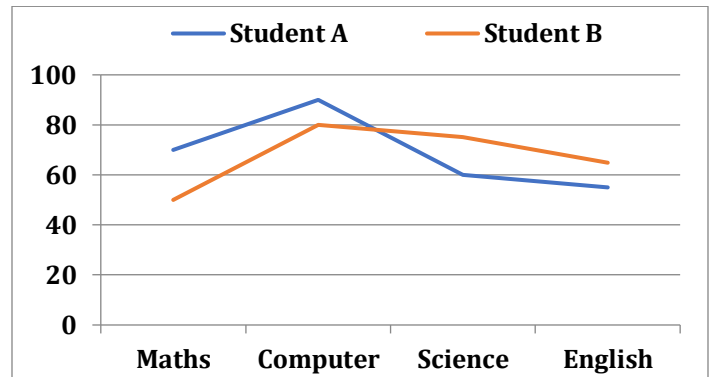
- (a) 14:11
- (b) 17:13
- (c) 11:14
- (d) 13:17
- (e) None of these

**Q130.** Which of the combination represents the colleges with maximum number of students, who have opted for pharmacy and those who have opted for engg. respectively?

- (a) P & R
- (b) Q & S
- (c) Q & R
- (d) R & S
- (e) P & Q



**Direction (131-135):** Following Line Graph shows the marks scored by Student A and Student B in high school in different Subjects. (Maximum Marks is 100 for each subject). Study the data carefully and answer the following questions.



**Q131.** What is difference between average marks scored by Student A and Student B in all subjects?

- (a) 1.75
- (b) 1.45
- (c) 1.50
- (d) 1.25
- (e) 1

**Q132.** What is Ratio of marks obtained by Student A in Maths and Computer together to the marks obtained by Student B in Science and English together?

- (a) 7:5
- (b) 7:8
- (c) 8:7
- (d) 8:5
- (e) 5:7

**Q133.** What is the overall percentage marks scored by Student B?

- (a) 68.75 %
- (b) 67.5 %
- (c) 68%
- (d) 67%
- (e) 69.25%

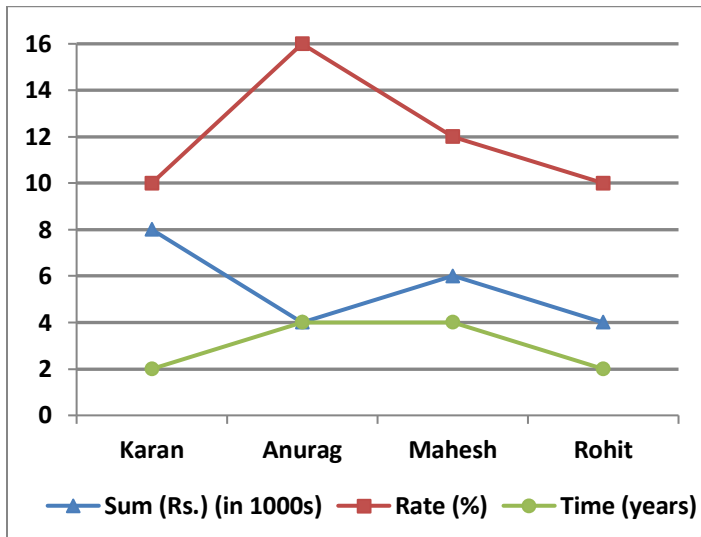
**Q134.** Marks Scored by Student A in Math is what percent of marks scored by Student B in Science and English together?

- (a) 40%
- (b) 60%
- (c) 50%
- (d) 70%
- (e) 80%

**Q135.** If passing marks for each subject is 40% of 120, then what is the difference between passing marks and marks scored by Student B in Computer?

- (a) 30
- (b) 32
- (c) 36
- (d) 40
- (e) 45

**Directions (136-140):** Given line graph shows the sum invested, rate of interest and time period of investment by 4 people. Study the data carefully and answer the questions.  
(NOTE: all invested their sum at simple interest)



**Q136.** How much will Rohit receive after completion of his investment period? (in Rs.)

- (a) 5200
- (b) 6800
- (c) 4800
- (d) 4400
- (e) 4600

**Q137.** Interest amount received by Mahesh is what percent more than interest amount received by Karan?

- (a) 85%
- (b) 60%
- (c) 75%
- (d) 70%
- (e) 80%

**Q138.** What is total amount received as interest by Anurag & Rohit together? (in Rs.)

- (a) None of these
- (b) 3150
- (c) 3200
- (d) 3360
- (e) 3420

**Q139.** If Karan had invested same sum at compound interest at same rate of interest for same period. How much more would he earn?

- (a) Rs 80
- (b) Rs 90
- (c) Rs 70
- (d) Rs 60
- (e) None of these

**Q140.** Who among the four had received the highest amount as interest?

- (a) Karan
- (b) Anurag
- (c) Both Anurag & Mahesh
- (d) Rohit
- (e) Mahesh

**Q141.** Two squares are drawn on a same base but of different edge length. If difference of their area is 36 sq.cm. find the edge length of larger square if difference of their edge length is 3 cm.

- (a) 5.5 cm
- (b) 7.5 cm
- (c) 6.5 cm
- (d) 4.5 cm
- (e) 6 cm

**Q142.** A sum of Rs. P was invested at 10% for 2 years at simple interest. If the same sum was invested at 20% for 'x' years, it would have fetched Rs. 200 more. Find 'x' if  $Px = 5000$ . (value of x is given in months)

- (a) 12
- (b) 18
- (c) 15
- (d) Cannot be determined
- (e) None of these

**Q143.** 4 men & 3 children completes a project for Rs. 600 in 3 days. If a man completes same project in 15 days. Find daily wage of a man.

- (a) Rs 36
- (b) Rs. 40
- (c) Rs. 44
- (d) Rs. 48
- (e) Rs. 42

**Q144.** Difference between 50% of y and 10% of x is 170 whereas difference between 40% of x and 30% of y is zero. Find the sum of 'x' and 'y' ?

- (a) 770
- (b) 630
- (c) 600
- (d) 700
- (e) 560

**Q145.** Pandey's income & savings are in ratio 16:3. If his savings increases by  $\frac{1}{3}$  while expenditure by  $\frac{1}{2}$ . Find the ratio of new income to earlier income.

- (a) 39:32
- (b) 23:16
- (c) 47:32
- (d) 32:19
- (e) None of these

**Directions (146-150):** Find the missing term in the following number series questions.

**Q146.** 6, 7, 16, 51, 208, ?

- (a) 970
- (b) 845
- (c) 1085
- (d) 985
- (e) 1045

**Q147.** 2000, ?, 2164, 2308, 2504, 2760

- (a) 2049
- (b) 2036
- (c) 2064
- (d) 2100
- (e) 2081

**Q148.** 800, 770, 728, 672, ?, 510,

- (a) 616
- (b) 600
- (c) 580
- (d) 624
- (e) 560

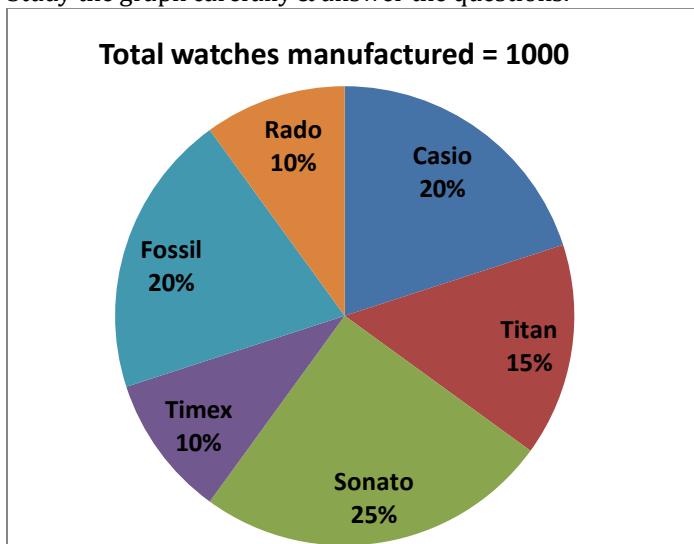
**Q149.** 500, 548, 620, ?, 836, 980

- (a) 716
- (b) 736
- (c) 756
- (d) 696
- (e) 746

**Q150.** 10, 20, 60, 300, ?, 23100

- (a) 1650
- (b) 1500
- (c) 1800
- (d) 2100
- (e) 2400

**Directions (151-155):** Given pie graph shows percentage distribution of watches manufactured by a company in 2018. Study the graph carefully & answer the questions.



**Q151.** What is average of watches manufactured by Casio, Titan & Sonata together?

- (a) 500
- (b) 600
- (c) 400
- (d) 200
- (e) 300

**Q152.** What is ratio of watches manufactured by Timex & Sonata together to that by Fossil & Casio together?

- (a) 5:4
- (b) 8:7
- (c) 7:8
- (d) 7:4
- (e) 5:8

**Q153.** Watches manufactured of Sonata are what percent more/less than watches manufactured of Rado?

- (a) 130%
- (b) 150%
- (c) 200%
- (d) 170%
- (e) 100%

**Q154.** If next year, Titan watch production increases by 10% while that of Timex decreases by 10%. What is difference in manufacturing of both in next year?

- (a) 80
- (b) 90
- (c) 100
- (d) 65
- (e) 75

**Q155.** No. of watches manufactured of how many brands is more than average no. of watches manufactured?

- (a) 4
- (b) 3
- (c) 1
- (d) 2
- (e) 5

**Directions (156-160):** In each of the following questions, find the exact value of (?).

**Q156.**  $7.5 \times 8 - 10 = ? \times 2.5$

- (a) 15
- (b) 20
- (c) 25
- (d) 30
- (e) 35

**Q157.**  $7394 + 6295 - 3689 = ? \times 40$

- (a) 320
- (b) 240
- (c) 280
- (d) 250
- (e) 300

**Q158.**  $9 \times 9 \div 3 + 9 \times 123 = ? - 19 - 23$

- (a) 1176
- (b) 1174
- (c) 1177
- (d) 1175
- (e) 1178

**Q159.**  $13 \times 23 + 27 \times 37 = (?) - 302$

- (a) 1620
- (b) 1540
- (c) 1700
- (d) 1500
- (e) 1600

**Q160.**  $493 + 287 - 334 = -54 + ? \times 5$

- (a) 90
- (b) 100
- (c) 110
- (d) 95
- (e) 85

**Q161.** A train can cross a pole in 15 seconds and travelling at the same speed it can cross a bridge of 500 m in 45 seconds, then find the length of the train?(in metre)

- (a) 250
- (b) 300
- (c) 200
- (d) 240
- (e) 320

**Q162.** A boat goes 220 km downstream and 108 km upstream in 20 hr. Speed of the boat in still water is 4 times the speed of the stream. Find the sum of time taken by the boat to go 40 km in downstream and 48 km upstream?

- (a) 8 hrs
- (b) 10 hrs
- (c) 6 hrs
- (d) 9 hrs
- (e) None of these

**Q163.** The perimeter of a square is double than the perimeter of a rectangle. The area of the rectangle is 36 sq.cm. what is the area of square?

- (a) 72 sq.cm
- (b) 56 sq.cm
- (c) 64 sq.cm
- (d) can't be determined
- (e) 108 sq.cm

**Q164.** If ratio of time periods of investment of P and Q is 4:5, profit at the end of the year is 75000 and P's share is Rs 15000, then what is the ratio of Q's and P's investment?

- (a) 5:16
- (b) 6:7
- (c) 12:13
- (d) 16:5
- (e) 8:5

**Q165.** In how many different ways can the letter of word 'champion' be arranged so that all the vowels come together?

- (a) 4820
- (b) 4320
- (c) 4640
- (d) 5280
- (e) None of these

**Directions (166-170):** Study the following information carefully and answer the question accordingly.

Three stationary owners A, B and C sells Pen and Pencil. The ratio of the number of pen to pencil sold by stationary A was 7:5 and that sold by stationary B was 3:2 respectively. The number of pens and pencil sold by stationary C was 128 and ratio of number of pen to pencil sold by stationary C was 5:3. The total number of pens sold by stationary A was 10 % more than the pen sold by stationary B. Total numbers of pen and pencils sold by all the three stationary was 874.

**Q166.** If cost of each pen and each pencil sold by A is Rs 20 and Rs 10 respectively, then find total amount earned by stationary A?

- (a) Rs 6370
- (b) Rs 6470
- (c) Rs 6270
- (d) Rs 6300
- (e) Rs 6400

**Q167.** What is the ratio of pens sold by stationary A and B together to pencils sold by B and C together?

- (a) 188:441
- (b) 441:188
- (c) 233:447
- (d) 447:233
- (e) None of these

**Q168.** Find average numbers of pens sold by all the three stationaries?

- (a) 176.67
- (b) 172.67
- (c) 177.67
- (d) 173.67
- (e) 179.67

**Q169.** If number of pens sold by stationary B is increased by 20% and number of pencils sold by stationary C is increased by 25%, then what is sum of total pens sold by stationary B and pencil sold by stationary C?

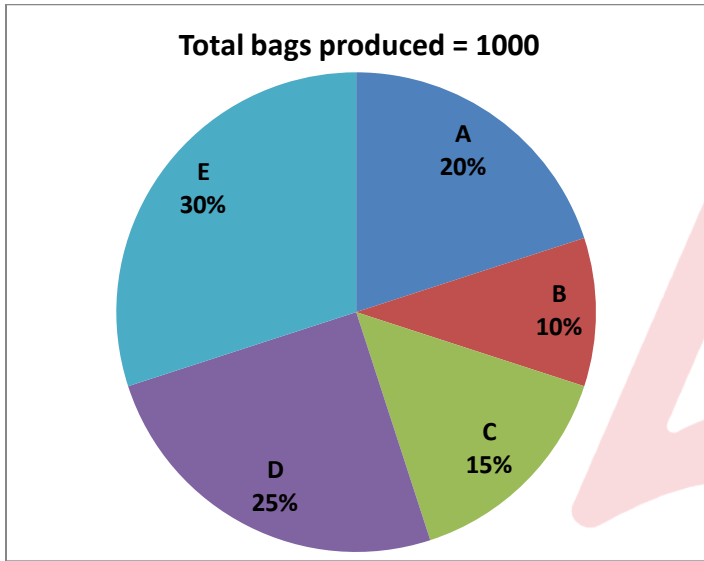
- (a) 312
- (b) 322
- (c) 328
- (d) 340
- (e) 304



**Q170.** What is the difference between total number of pens sold by all the 3 stationary together and total number of pencils sold by all the 3 stationary together?

- (a) 178
- (b) 172
- (c) 168
- (d) 184
- (e) 190

**Directions (171-175):** Given pie chart shows the percentage distribution of production of bags by 5 different companies while the table shows the data of ratio of duffel bags to backpacks produced by these 5 companies. Study the charts carefully and answer the questions.



Companies	Duffel Bags : Backpacks
A	1 : 1
B	3 : 2
C	8 : 7
D	12 : 13
E	13 : 17

**Q171.** How many bags (duffel) were produced by companies B and C together?

- (a) 160
- (b) 130
- (c) 150
- (d) 140
- (e) 120

**Q172.** What is ratio of backpacks produced by company A & D together to duffel bags produced by company E?

- (a) 22 : 17
- (b) 13 : 23
- (c) 23 : 13
- (d) 17 : 22
- (e) 23 : 17

**Q173.** Duffel bags produced by company B are what percent of backpacks produced by company D?

- (a)  $46\frac{2}{13}\%$
- (b)  $48\frac{2}{13}\%$
- (c)  $44\frac{2}{13}\%$
- (d)  $50\frac{2}{13}\%$
- (e) None of the above

**Q174.** What is average of backpacks produced by company C and D together?

- (a) 110
- (b) 140
- (c) 80
- (d) 120
- (e) 100

**Q175.** Total bags produced by company B and E together are what percent of duffel bags produced by company A, D & E together?

- (a)  $112\frac{2}{7}\%$
- (b)  $114\frac{2}{7}\%$
- (c)  $110\frac{2}{7}\%$
- (d)  $116\frac{2}{7}\%$
- (e)  $118\frac{2}{7}\%$

**Directions (176-180):** Study the given passage carefully and answer the questions.

In an office, there are 200 employees who consume any product (Espresso, Cappuccino, and Latte) of Nescafe. 25 employees consume espresso & latte both while 15 consume espresso & cappuccino both. 35 consume only latte. 95 employees consume espresso. 30 consume all 3 drinks. 100 employees consume exactly one drink.

**Q176.** How many employees do drink exactly 2 drinks?

- (a) 75
- (b) 100
- (c) 70
- (d) 80
- (e) 65

**Q177.** Employees consuming cappuccino are approximately what percent of employees consuming latte?

- (a) 92%
- (b) 98%
- (c) 94%
- (d) 96%
- (e) 99%



**Q178.** What is the ratio of employees consuming only espresso to employees consuming cappuccino & latte both?

- (a) 5:6
- (b) 5:8
- (c) 3:4
- (d) 6:5
- (e) 8: 5

**Q179.** What is the total no. of employees that consumes more than one drink?

- (a) 90
- (b) 110
- (c) 80
- (d) 95
- (e) 100

**Q180.** Average no. of employees consuming only espresso & only latte are how much more/less than average no. of employees consuming cappuccino & latte both and all 3 drinks?

- (a) 2.5
- (b) 0
- (c) 5
- (d) 7.5
- (e) 10

**Q181.** The parallel sides of a trapezium are 4 cm & 10 cm respectively while non-parallel sides are equal to side of square of area 25 sq.cm. find area of trapezium. (in sq.cm.)

- (a) 50
- (b) 42
- (c) 56
- (d) 28
- (e) 14

**Q182.** An amount doubles in 5 years at simple interest. In what time will it become 12 times of itself at same rate? (in years)

- (a) 30
- (b) 50
- (c) 55
- (d) 36
- (e) None of these

**Q183.** A & B can do a work in 12 days when working together while A alone does it in 25 days. In what time the work will be finished if each A & B completes half of the work? (in days)

- (a)  $24\frac{7}{26}$
- (b)  $24\frac{1}{26}$
- (c)  $22\frac{1}{26}$
- (d)  $18\frac{9}{26}$
- (e)  $22\frac{11}{26}$

**Q184.** Jai scores 20% higher than Raj in an exam who scores 30% more than Ronit who scores 10% less than Ravi. What percent of marks are scored by Jai as compared to Ravi?

- (a) 117%
- (b) 140.4%
- (c) 90%
- (d) 127.8%
- (e) None of these

**Q185.** In a mixture of juice and water, juice is 20% more than water. This is mixed with another mixture having juice & water in ratio 5:6. If these two are mixed in ratio 3:4. Find ratio of juice & water in final mixture.

- (a) 35 : 39
- (b) 35 : 38
- (c) 1 : 1
- (d) 38: 41
- (e) 38 : 39

**Q186.** The ratio of milk and water in a mixture of 64 litres is 7:1. How much water must be added to it so that the ratio of milk and water becomes 14:5?

- (a) 12 litres
- (b) 15 litres
- (c) 8 litres
- (d) 16 litres
- (e) None of these

**Q187.** A person is 16 yrs older than his son. After 2 yrs, the person's age will be double the age of his son. Then find the age of his son 8 yrs hence?

- (a) 24 yrs
- (b) 20 yrs
- (c) 22 yrs
- (d) 18 yrs
- (e) 28 yrs

**Q188.** The interest earned on an amount after 2 yrs at 10 % per annum compounded yearly is Rs 672. Find the interest earned on same amount after 4 yr at 14 % per annum at simple interest ?

- (a) Rs 1792
- (b) Rs 1864
- (c) Rs 1912
- (d) Rs 1754
- (e) Rs 1720

**Q189.** Four books are to be distributed among seven students. If no student gets more than one book, then the number of ways possible to do it is?

- (a) 180
- (b) 240
- (c) 260
- (d) 210
- (e) 220

**Q190.** When a 2 digit number(x) is reversed, the number so formed is 63 more than the original number. If the sum of digits of original number is 11, then find the value of x+15?

- (a) 48
- (b) 44
- (c) 36
- (d) 56
- (e) None of these

**Q191.** Average of 8 consecutive odd numbers is 10. What will be the average of smallest 4 numbers out of 8 numbers?

- (a) 7
- (b) 8
- (c) 6
- (d) 4
- (e) 5

**Q192.** Cost price of 2 bags is in ratio 4:5 and these bags are sold at 10% profit & 20% profit respectively. Find overall profit percentage in entire transaction.

- (a)  $15\frac{5}{9}\%$
- (b)  $12\frac{5}{9}\%$
- (c)  $18\frac{5}{9}\%$
- (d)  $14\frac{5}{9}\%$
- (e)  $12\frac{7}{9}\%$

**Q193.** A storekeeper has 2 types of shirts i.e. 15 yellow and 10 blue. If he sold 3 shirts, what is the probability that these are either all yellow or all blue?

- (a)  $\frac{1}{2}$
- (b)  $\frac{3}{10}$
- (c)  $\frac{1}{4}$
- (d)  $\frac{28}{115}$
- (e)  $\frac{3}{25}$

**Q194.** How many ways are there to form a committee of 5 people from 5 boys and 4 girls such that number of boys will always be more than number of girls and atleast a boy & a girl should be there in the committee?

- (a) 60
- (b) 80
- (c) 100
- (d) 85
- (e) None of these

**Q195.** Sanjay starts from A to reach B which is 20 kms apart, at a speed of 5 kmph. By what percent should he increase his speed in order to shorten the journey time by 60%?

- (a) 165%
- (b) 140%
- (c) 175%
- (d) 125%
- (e) 150%

**Directions (196-210):** What approximate value will come in place of question mark (?) in the following questions. (You are not expected to find the exact value)

**Q196.**  $33.989 \times \frac{4.01}{17.02} \times \frac{1}{3.99} - 2.012 = ?$

- (a) 0
- (b) 3
- (c) 5
- (d) 4
- (e) 8

**Q197.**  $(11.01 + 12.97) \times \frac{1}{7.99} + 5.956 = 18 - ?$

- (a) 15
- (b) 13
- (c) 5
- (d) 9
- (e) 18

**Q198.**  $119.022 + 40.99 + 9.03 = ?^2$

- (a) 10
- (b) 13
- (c) 17
- (d) 8
- (e) 16

**Q199.**  $58.99 + 52.11 - 47.94 + ? = 85.96$

- (a) 27
- (b) 19
- (c) 23
- (d) 15
- (e) 30

**Q200.**  $(14.96)^2 + (5.011)^3 + 50.02 = ?^2$

- (a) 28
- (b) 16
- (c) 25
- (d) 12
- (e) 20

**Q201.**  $1999.92 \div 49.87 \times 3.01 + 5.13 = (?)^3$

- (a) 5
- (b) 8
- (c) 9
- (d) 2
- (e) 3

**Q202.**  $59.9\% \text{ of } 319.94 + 9.99\% \text{ of } 1600.01 = -177 + (?)^2$

- (a) 26
- (b) 33
- (c) 23
- (d) 20
- (e) 40

**Q203.**  $1.101 + 11.01 + 101.01 \div 1.01 = ?$

- (a) 109
- (b) 116
- (c) 101
- (d) 113
- (e) 117

**Q204.**  $\sqrt{2024} \times \sqrt{9.21} - 35.01 = ? \times 10.1$

- (a) 10
- (b) 12
- (c) 14
- (d) 20
- (e) 15

**Q205.**  $1390.98 \div 26.04 \times 1.99 = ? - 16^2$

- (a) 324
- (b) 413
- (c) 400
- (d) 343
- (e) 363

**Q206.**  $112.5 \times 5.95 + 7799 \div 26 + 124.8 = ?$

- (a) 1150
- (b) 1100
- (c) 1200
- (d) 1250
- (e) 1050

**Q207.**  $57.5 \times 13.98 + 8748 \div 13.98 - 21.97 \times 8 = ?$

- (a) 1300
- (b) 1350
- (c) 1205
- (d) 1254
- (e) 1150

**Q208.**  $(25.98)^2 + (33.97)^2 + \sqrt{1440} - \sqrt{3136} = ?$

- (a) 1814
- (b) 1864
- (c) 1764
- (d) 1710
- (e) 1920

**Q209.**  $12449.5 + 7649.7 - 9874.8 + 8274.9 = ?$

- (a) 19200
- (b) 17000
- (c) 17500
- (d) 18000
- (e) 18500

**Q210.**  $(15.98)^3 + 9320 \div 7.99 - 7304.8 \div 4.99 = ?$

- (a) 3750
- (b) 3800
- (c) 3600
- (d) 3690
- (e) 3850

**Directions (211-225):** What will come in place of question mark (?) in the following series questions?

**Q211.** 20, 24, 32, ?, 60, 80

- (a) 40
- (b) 44
- (c) 48
- (d) 52
- (e) 46

**Q212.** 125, 216, 343, 512, 729, ?

- (a) 990
- (b) 1331
- (c) 1000
- (d) 1020
- (e) 1100

**Q213.** 100, 180, 294, 448, 648, ?

- (a) 1040
- (b) 1020
- (c) 980
- (d) 1000
- (e) 900

**Q214.** 35, 42, ?, 56, 63, 70

- (a) 48
- (b) 52
- (c) 45
- (d) 49
- (e) 51

**Q215.** 2, 4, 12, 48, ?, 1440

- (a) 240
- (b) 216
- (c) 192
- (d) 288
- (e) 180

**Q216.** 1, 2, 6, 15, ?

- (a) 31
- (b) 30
- (c) 25
- (d) 40
- (e) 28

**Q217.** 12, 14, 17, 22, 29, ?

- (a) 41
- (b) 40
- (c) 38
- (d) 45
- (e) 46

**Q218.** 1, 2, 10, 37, 101, ?

- (a) 225
- (b) 227
- (c) 226
- (d) 220
- (e) 221

**Q219.** 101, 123, 147, 173, ?

- (a) 200
- (b) 201
- (c) 202
- (d) 203
- (e) 204

**Q220.** 24, 30, 23, 31, 22, ?

- (a) 32
- (b) 33
- (c) 31
- (d) 34
- (e) 35

**Q221.** 3, 8, 18, 33, 53, ?

- (a) 72
- (b) 80
- (c) 76
- (d) 78
- (e) 73

**Q222.** 9, 64, 25, 216, ?, 512

- (a) 49
- (b) 343
- (c) 81
- (d) 100
- (e) 121

**Q223.** 12, 36, 80, 164, 328, ?

- (a) 648
- (b) 664
- (c) 660
- (d) 656
- (e) 652

**Q224.** 15, 23, 30, 36, 41, ?

- (a) 48
- (b) 52
- (c) 49
- (d) 45
- (e) 51

**Q225.** 7, 14, 28, ?, 112, 224

- (a) 56
- (b) 64
- (c) 58
- (d) 62
- (e) 60

**Directions (226-230:** Following Table chart gives the details of 5 students of a particular school in five different subjects in the annual exam.

	Maths (150)	Physics (150)	Chemistry (150)	English (100)	Computer (100)
<b>Amit</b>	70	66	58	54	80
<b>Aakash</b>	50	64	78	65	75
<b>Siddharth</b>	48	72	88	70	86
<b>Lokesh</b>	80	76	84	75	85
<b>Ritesh</b>	76	82	64	72	94

**Note:-**the data provided in the table is percentage of marks out of total marks in that particular subject.

**Q226.** Total marks scored by lokesh in physics, chemistry and maths together is how much more/less than total marks scored by Amit in the same three subjects together?

- (a) 75
- (b) 65
- (c) 69
- (d) 55
- (e) 80

**Q227.** Find the overall percentage of marks scored by Siddharth in the exam?

- (a) 75%
- (b) 82%
- (c) 68%
- (d) 72%
- (e) 80%

**Q228.** Find the difference of total marks scored by Ritesh in all the given subject together and total marks scored by Aakash in all the given subjects together?

- (a) 71
- (b) 84
- (c) 78
- (d) 82
- (e) 93

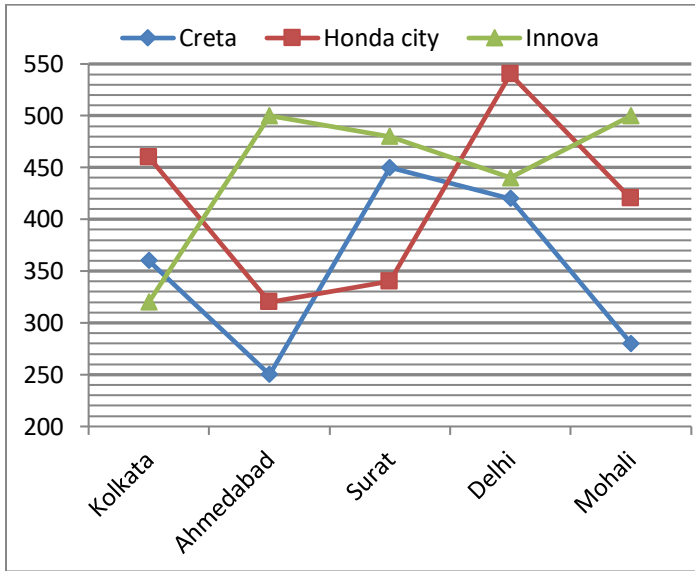
**Q229.** Find the average marks scored in physics subject by all the given five students together?

- (a) 105
- (b) 110
- (c) 108
- (d) 100
- (e) 98

**Q230.** Total marks scored by Aakash, Siddharth and Lokesh in English is what percentage of the total marks scored by Amit, Aakash and lokesh in maths?

- (a) 75%
- (b) 70%
- (c) 65%
- (d) 68%
- (e) 80%

**Directions (231-235):** Following line graph shows the data of 3 different types of cars sold in 5 different cities.



**Q231.** Number of Honda city car sold in Ahmedabad is what percent of total Innova car sold in Surat?

- (a) 50%
- (b)  $66\frac{2}{3}\%$
- (c) 70 %
- (d)  $57\frac{1}{7}\%$
- (e) 80 %

**Q232.** Find the respective ratio of Creta car sold in Delhi and Mohali together to the total of Innova car sold in Kolkata and Ahmedabad together?

- (a) 41:35
- (b) 46:53
- (c) 26:35
- (d) 35:41
- (e) 35:54

**Q233.** Find the total number of cars sold in Kolkata?

- (a) 1140
- (b) 1170
- (c) 1250
- (d) 1300
- (e) 1080

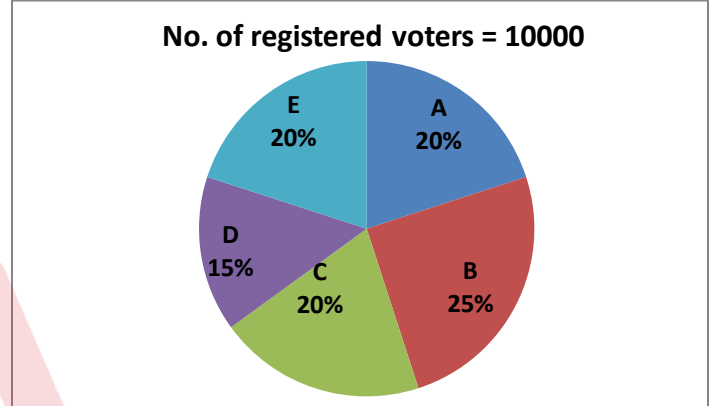
**Q234.** Find the difference between number of Honda city cars sold in delhi and number of creta cars sold in surat?

- (a) 70
- (b) 110
- (c) 80
- (d) 100
- (e) 90

**Q235.** Find the average number of Honda city car sold in all the cities?

- (a) 420
- (b) 426
- (c) 416
- (d) 430
- (e) 435

**Directions (236-240):** Given pie diagram shows the percentage distribution of number of registered voters in 5 villages. Study the diagram carefully and answer the following questions.



**Q236.** If 20% of registered voters in village B did not cast their vote and 10 % of votes cast were found invalid. Find no. of valid votes cast in village B.

- (a) 1800
- (b) 1900
- (c) 1950
- (d) 1850
- (e) 2000

**Q237.** In village C, 10% of registered voters did not cast their vote and no vote was invalid from the votes which were cast. The winning candidate defeated the other candidate by 12% of votes cast. Find no. of votes obtained by losing candidate. (There are only 2 candidates contesting in elections in village C)

- (a) 996
- (b) 880
- (c) 1008
- (d) 792
- (e) None of these

**Q238.** Find average number of registered voters in village B, C & D.

- (a) 1700
- (b) 2100
- (c) 1900
- (d) 1800
- (e) 2000

**Q239.** In village A, B, D & E votes cast by only 70%, 65%, 80% and 75% of registered voters respectively. From which village among A, B, D & E did maximum voters cast their votes?

- (a) E
- (b) A
- (c) B
- (d) D
- (e) B & E

**Q240.** Average no. of registered voters from village A & C is what percent of average no. of registered voters from village B, D and E?

- (a) 120%
- (b) 100%
- (c) 90%
- (d) 80%
- (e) 110%

**Q241.** The ratio of areas of two squares is 289 : 169. Find the ratio of their diagonals.

- (a) 19 : 15
- (b) 15 : 13
- (c) 17 : 15
- (d) 17 : 13
- (e) 13 : 11

**Q242.** Rs. 12000 becomes Rs. 15000 in 18 months at a certain rate of interest at simple interest. Find amount if Rs. 5000 invested at same rate for 30 months at simple interest.

- (a) Rs. 7883.33
- (b) Rs. 7083.33
- (c) Rs. 7279.80
- (d) Rs. 7173.33
- (e) None of these

**Q243.** The work done by 5 boys in 20 days can be done by 10 men in 8 days. 4 Men & 4 boys undertook a work to complete in 3 days for Rs. 540. Find the amount earned by boys for their whole contribution.

- (a) Rs 236
- (b) Rs.240
- (c) Rs.244
- (d) Rs.248
- (e) Rs.242

**Q244.** Sanjay scored 56% marks and passed an exam by 10 marks while Rohit scored 48% marks but failed by 6 marks. What is the pass percentage?

- (a) 52.5%
- (b) 51.5%
- (c) 52%
- (d) 51%
- (e) None of these

**Q245.** Mahesh has two sons named Karan and Arjun. The ratio of present age of Mahesh and Karan is 5 : 2 and that of Karan and Arjun is 4 : 3. Also, Karan is 5 years elder than Arjun. Find the ratio of their ages 10 years ago.

- (a) 10 : 4 : 3
- (b) 7 : 2 : 1
- (c) 8 : 2 : 1
- (d) 8 : 3 : 1
- (e) 12 : 6 : 5

**Direction (246-250):** What will come in place of (?) question mark.

**Q246.**  $50\%$  of  $128 + \frac{\sqrt{16}}{2} \times 4 = ? + 10$

- (a) 64
- (b) 62
- (c) 60
- (d) 56
- (e) 82

**Q247.**  $\frac{\sqrt[3]{1331}}{11} + \sqrt{81} + ? = 27$

- (a) 19
- (b) 18
- (c) 17
- (d) 16
- (e) 15

**Q248.**  $(3)^2 \times (3)^6 \times (9)^2 \div (27)^2 = (3)^?$

- (a) 4
- (b) 6
- (c) 7
- (d) 5
- (e) 8

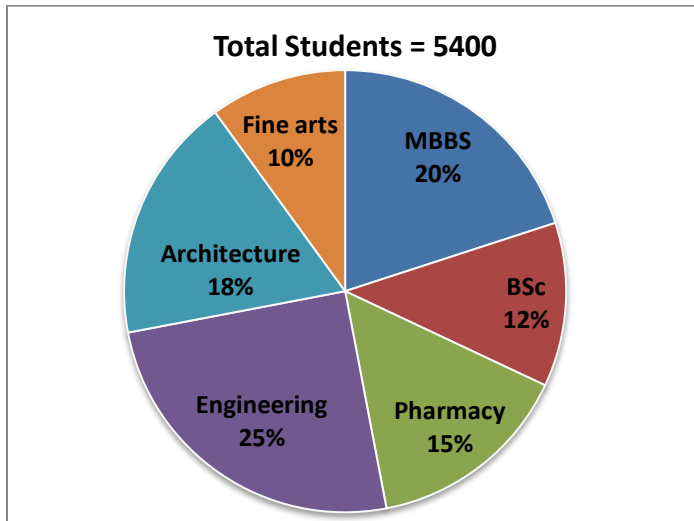
**Q249.**  $123 + 447 - 170 + 500 = ? - 200$

- (a) 1300
- (b) 1100
- (c) 1000
- (d) 1030
- (e) 1173

**Q250.**  $(14)^2 + 179 + (5)^2 = (?)^2$

- (a) 10
- (b) 20
- (c) 30
- (d) 40
- (e) 22

**Directions (251-255):** Study the charts given below carefully and answer the following questions.  
Pie chart shows the distribution of total students of a university in different departments as shown below.



**Q251.** Find the ratio of total number of student from engineering and architecture department together to total students from the pharmacy and BSc department together?

- (a) 27:43
- (b) 27:47
- (c) 43:27
- (d) 47:27
- (e) 37:42

**Q252.** If the ratio of males to females in pharmacy and finearts departments are 1:2 and 3:2 respectively, then find the total number of females in pharmacy and finearts together?

- (a) 784
- (b) 712
- (c) 736
- (d) 756
- (e) 812

**Q253.** Find the central angle of the total students of architecture department of the university?

- (a) 64.8°
- (b) 75.6°
- (c) 72°
- (d) 43.2°
- (e) 68.4°

**Q254.** Number of students who failed in the final semester exam from MBBS and Finearts dept are 20% and 15% respectively of their respective dept, then find the total number of student who passed the semester from MBBS and Finearts dept ?

- (a) 1345
- (b) 1323
- (c) 1368
- (d) 1420
- (e) 1456

**Q255.** Total students from engineering and pharmacy department together is approximately what percentage of the total students from MBBS and Fine arts dept?

- (a) 122%
- (b) 148%
- (c) 126%
- (d) 143%
- (e) 134%

**Directions (256-260):** What should come in place of question mark (?) in the following questions?

**Q256.** 48% of 525 + ? % of 250 = 499

- (a) 88.8
- (b) 76.6
- (c) 82.6
- (d) 98.8
- (e) 92.8

**Q257.**  $\frac{5}{2}$  of  $\frac{7}{8}$  of  $\frac{1}{28}$  of 1600 = 260 + ? - 499

- (a) 264
- (b) 480
- (c) 364
- (d) 342
- (e) 420

**Q258.**  $\sqrt{5^2 \times 41 \times 5 - 17^2 - 75} = ?$

- (a) 69
- (b) 71
- (c) 79
- (d) 63
- (e) 89

**Q259.**  $\sqrt{256 \times 49} + (19)^2 + 11 = (?)^2$

- (a) 484
- (b) 22
- (c) 24
- (d) 42
- (e) 26

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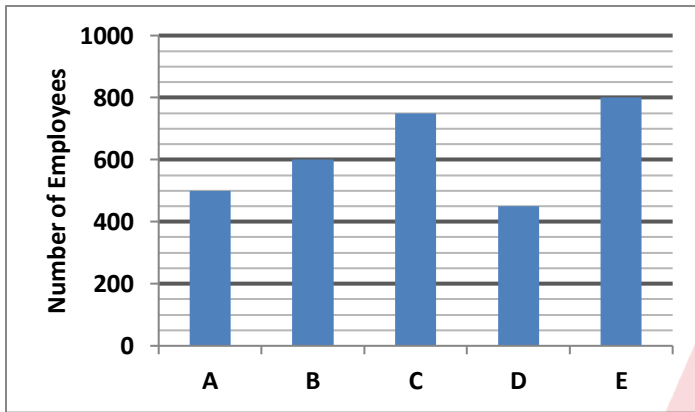
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**Q260.**  $252 + 520 \div 20 + 420 = 121 + ?$

- (a) 587
- (b) 577
- (c) 527
- (d) 477
- (e) 627

**Directions (261-265):** Given bar graph shows the number of employees in 5 different companies. Study the graph carefully and answer the following questions.



**Note-** Total employees in any company = Total (Male + Female) employees in that company.

**Q261.** There are 50% males in company A. females in company A are what percent of total employees of company C?

- (a) 25%
- (b)  $37\frac{5}{7}\%$
- (c)  $38\frac{5}{7}\%$
- (d)  $33\frac{5}{7}\%$
- (e)  $33\frac{1}{3}\%$

**Q262.** What is average number of employees of company B, D & E?

- (a) 602.67
- (b) 650
- (c) 616.67
- (d) 623.67
- (e) 625

**Q263.** What is difference between average no. of employees in company A & C and average no. of employees in company B & D?

- (a) 130
- (b) 100
- (c) 90
- (d) 110
- (e) 105

**Q264.** Ratio of male to female employees in company D & E is 8:7 and 7:3 respectively. Find total number of female employees in both the companies

- (a) 430
- (b) 470
- (c) 500
- (d) 450
- (e) 460

**Q265.** In another company F, males are 60% of total employees in company B while females are 70% of total employees in company D. find total number of employees in company F.

- (a) 675
- (b) 600
- (c) 650
- (d) 690
- (e) 655

**Q266.** At present, Suresh is six times his son's age. 13 years from now, the ratio of ages of Suresh and his son will be 11:4 respectively. Find Suresh's present age ?

- (a) 36 yrs
- (b) 48 yrs
- (c) 30 yrs
- (d) 42 yrs
- (e) None of these

**Q267.** If the shopkeeper marked the price of an item 60% above the cost price and then gives two successive discount of 10% and 15% respectively, then find the profit percentage of the shopkeeper on selling the item?

- (a) 25.4%
- (b) 22.4%
- (c) 20%
- (d) 28.5%
- (e) 32%

**Q268.** Shatabdi express leaves from delhi to Kolkata at 3 p.m at 60 km/hr. If another train, duronto express leaves from the same station at 5 p.m at 90 km/hr for Kolkata. At what distance from delhi, the both train will meet each other?

- (a) 360 km
- (b) 450 km
- (c) 320 km
- (d) 420 km
- (e) 480 km

**Q269.** The speed of the boat in still water is 15 km/hr. If the boat travels 54 km each in downstream and upstream in 7.5 hrs, then find the time taken by the boat to travel 48 km in upstream?

- (a) 8 hrs
- (b) 6 hrs
- (c) 3 hrs
- (d) 5 hrs
- (e) 4 hrs

**Q270.** In a basket, there are 8 red ball and 6 green ball. If 2 balls are taken out from the basket, then find what is the probability of both ball being either red or green?

- (a)  $\frac{43}{91}$
- (b)  $\frac{47}{91}$
- (c)  $\frac{51}{91}$
- (d)  $\frac{43}{87}$
- (e)  $\frac{43}{82}$

**Direction(271-275):** Read the following data carefully and answer the following question.

There are 210 persons in a party, and all of them eat different flavoured icecreams. 40 people eat only butterscotch, 30 people eat all three flavoured icecream, there are total 130 people who eat butterscotch and 100 people who eat vanilla. 40 people eat butterscotch and vanilla only, 10 people eat chocolate and vanilla only.

**Q271.** What is number of person who eat only Chocolate ?

- (a) 50
- (b) 40
- (c) 30
- (d) 60
- (e) 70

**Q272.** People eating chocolate and butterscotch only are what percent of people eating only butterscotch ?

- (a) 50%
- (b) 60%
- (c) 25%
- (d) 30%
- (e) 40%

**Q273.** number of people eating only vanilla is how much less than the people eating all three types of icecream?

- (a) 15
- (b) 20
- (c) 30
- (d) 10
- (e) 25

**Q274.** People eating chocolate are what percent of people eating vanilla icecream?

- (a) 100%
- (b) 130%
- (c) 110%
- (d) 120%
- (e) 90%

**Q275.** what is the ratio of people eating only chocolate and only butterscotch together to the person eating only vanilla?

- (a) 2:9
- (b) 9:2
- (c) 3:7
- (d) 7:3
- (e) 5:3

**Directions (276-280):** Study the given passage carefully and answer the questions.

A shopkeeper bought a pen & a book for Rs 500. He marked pen by 20% above cost price which is same as discount percentage given on book. He gained 8% & 12% on pen & book respectively. his gain amount in entire transaction is equal to 10% of marked price of book.

**Q276.** What is cost price of book? (in Rs)

- (a) 420
- (b) 350
- (c) 430
- (d) 380
- (e) 400

**Q277.** Marked price of book is how much more than the selling price of pen? (in Rs)

- (a) 440
- (b) 452
- (c) 460
- (d) 456
- (e) 444

**Q278.** What is ratio of selling price of pen to that of book?

- (a) 27 : 140
- (b) 15 : 56
- (c) 27 : 112
- (d) 27 : 100
- (e) 25 : 112

**Q279.** What is average of marked price of pen & book?

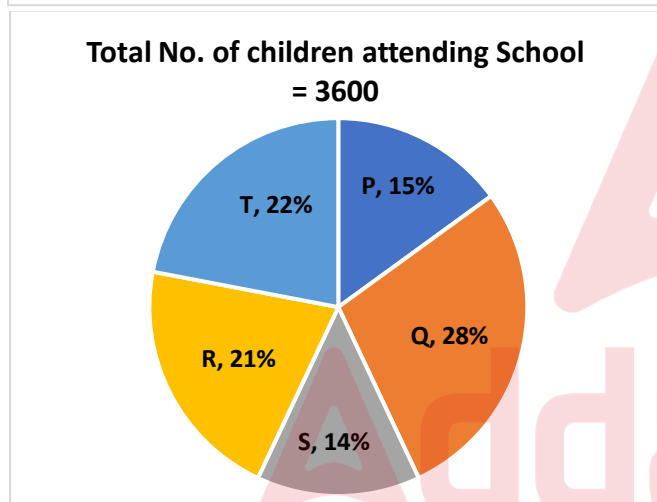
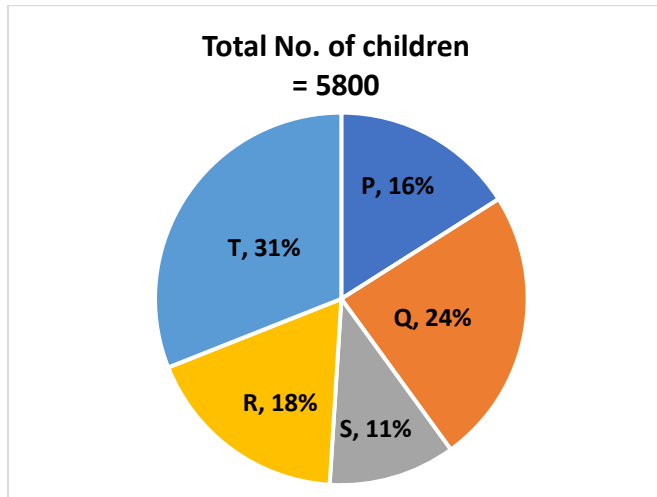
- (a) 340
- (b) 334
- (c) 330
- (d) 284
- (e) 278

**Q280.** If no discount was offered on both then his overall gain percent is approximately what percent more than his actual gain percent?

- (a) 100%
- (b) 167%
- (c) 150%
- (d) 220%
- (e) 200%

**Directions (281-285):** Study the following pie charts carefully and answer the following questions.

Percentage break up of number of children in five different villages and break up of children attending school from those villages.



**Q281.** What is the total number of children not attending school from village Q & S together?

- (a) 528
- (b) 508
- (c) 518
- (d) 618
- (e) 628

**Q282.** The number of children attending school from P is approximately what percent of the number of children from that village?

- (a) 54%
- (b) 56%
- (c) 60%
- (d) 53%
- (e) 58%

**Q283.** What is the approximate average number of children not attending school from village T, R and S together?

- (a) 476
- (b) 458
- (c) 464
- (d) 470
- (e) 466

**Q284.** The number of children not attending school from village R and T is approximately what percent of total number of children from village R and T together?

- (a) 43.65%
- (b) 42.5%
- (c) 48%
- (d) 46%
- (e) 49.45%

**Q285.** What is the ratio of total children from village R to the number of children attending school from that village?

- (a) 22 : 21
- (b) 29 : 28
- (c) 29 : 21
- (d) 29 : 27
- (e) 23 : 21

**Q286.** The difference between 40% of y and 20% of x is 270 whereas difference between 40% of x and 20% of y is zero. Find the sum of 'x' and 'y'?

- (a) 1250
- (b) 1400
- (c) 1200
- (d) 1350
- (e) 1500

**Q287.** A retailer buys article A and markup it 20 % above its cost price. At the time of sale if he gave 10% discount instead of 20% and he earns Rs. 4.8 more. Find the cost price of the article A.

- (a) 100
- (b) 80
- (c) 60
- (d) 40
- (e) 50

**Q288.** a, b, c and d are four consecutive even numbers, if the sum of 'a' and 'c' is 120, what is the product of 'b' and 'd'?

- (a) 4030
- (b) 3780
- (c) 3900
- (d) 3900
- (e) 3840

**Q289.** Three numbers are given. The average of first and third numbers is 24 more than that of average of second and third numbers. Find out the difference between the first and second numbers.

- (a) 36
- (b) 40
- (c) 42
- (d) 48
- (e) 46

**Q290.** If the price of milk is increased by 25% then a person can buy 8 litres less milk by spending Rs 160. Find the final rate of milk?

- (a) Rs 4 per litre
- (b) Rs 5 per litre
- (c) Rs 8 per litre
- (d) Rs 6 per litre
- (e) Rs 7 per litre

**Q291.** In an election between P and Q, if  $\frac{2}{5}$ th of the total voters promised to vote for P and rest promised to vote for Q. On the voting day 25% of the voters went back on their promise to vote for P & 30% of the voters went back on their promise to vote for Q. Find the total no. of voters, if Q wins by 400 votes.

- (a) 8000
- (b) 10000
- (c) 15000
- (d) 5000
- (e) 12000

**Q292.** Rahul bought an earphone & paid 10% less than its original price. If he sold it at 20% profit on the price he had bought, what profit percentage did Rahul earn on the original price?

- (a) 10%
- (b) 6%
- (c) 5%
- (d) 8%
- (e) 12%

**Q293.** The product of the age of Bhagat and Rahu is 240. If twice the age of Rahu is more than Bhagat's age by 4 years. Then what is the age of Rahu?

- (a) 12 years
- (b) 10 years
- (c) 15 years
- (d) 8 years
- (e) 20 years

**Q294.** A bottle contains three-fourths of milk and the rest water. How much of the mixture must be taken away and replaced by an equal quantity of water so that the mixture has half milk and half water?

- (a) 25%
- (b) 33.33%
- (c) 45%
- (d) 50%
- (e) 66.67%

**Q295.** A and B started a business with some amount after 9 months B left the business & C joins the business with Rs. 12,000. And remains in business till the end of year. After one year A, B and C got Rs. 48, Rs. 48 and Rs. 24 respectively. Find the sum of the amount A and B started the business?

- (a) 8,000
- (b) 10,000
- (c) 15,000
- (d) 12,000
- (e) 14,000

**Q296.** A trader mixes 26 kg of rice at Rs. 20 per kg. and 'x' kg of Rice at Rs. 30 per kg. He sold the mixture at Rs. 39 per kg and earn 50% profit. Find the value of 'x'?

- (a) 30 kg
- (b) 39 kg
- (c) 32 kg
- (d) 36 kg
- (e) 42 kg

**Q297.** The sum of digits of a two-digit number is 12 and the difference between the two-digits of the two-digit number is 6. What is the two-digit number?

- (a) 39
- (b) 28
- (c) 93
- (d) 75
- (e) Either (a) or (c)

**Q298.** A man sold article A in 100% profit and article B in 20% profit. If selling price of article, A and article B in same then find his overall profit percentage.

- (a) 40%
- (b) 50%
- (c) 55%
- (d) 60%
- (e) 75%

**Q299.** Present average age of a couple is 29 years after 2 year and 4 years respectively a boy child and a girl child are born. Find the average age of family after 8 years of present time?

- (a) 18
- (b) 19
- (c) 20
- (d) 21
- (e) 22

**Q300.** The present age of Bhagat and Abhi are in ratio of 9 : 8 respectively. After 10 years the ratio of their ages will be 10 : 9. What is the difference in their present age.

- (a) 8 years
- (b) 6 years
- (c) 12 years
- (d) 4 years
- (e) 10 years

## Solutions

### S1. Ans.(b)

$$\begin{aligned} \text{Sol. } & \sqrt{\frac{3840}{60} + \frac{1440}{40} - \frac{1330}{70}} \\ & = \sqrt{64 + 36 - 19} \\ & = \sqrt{81} \\ & = 9 \end{aligned}$$

### S2. Ans.(c)

$$\begin{aligned} \text{Sol. } & 25 \times 18 + \frac{4200}{40} - \frac{525}{105} = 740 - ? \\ & 450 + 105 - 5 = 740 - ? \\ & ? = 740 - 550 \\ & = 190 \end{aligned}$$

### S3. Ans.(d)

$$\begin{aligned} \text{Sol. } & 3845 + 4380 + 2640 - 5965 = (?)^2 \\ & (?)^2 = 10865 - 5965 \\ & = 4900 \\ & ? = \sqrt{4900} \\ & = 70 \end{aligned}$$

### S4. Ans.(b)

$$\begin{aligned} \text{Sol. } & 400 \div 20 \times 35 + 6666 \div 33 + ? = 1100 \\ & 20 \times 35 + 202 + ? = 1100 \\ & ? = 1100 - (700 + 202) \\ & = 1100 - 902 \\ & = 198 \end{aligned}$$

### S5. Ans.(b)

$$\begin{aligned} \text{Sol. } & 28 \times 14.5 + 1680 \div 15 + 445 = 1000 - ? \\ & 406 + 112 + 445 = 1000 - ? \\ & 963 = 1000 - ? \\ & ? = 1000 - 963 = 37 \end{aligned}$$

### S6. Ans.(e)

$$\begin{aligned} \text{Sol. } & \left(\frac{4}{5} \text{ of } \frac{25}{64}\right) \div \left(432 - 20^2 + \frac{3}{7} \text{ of } 21\right) \times (82) = ? \text{ of } \frac{1}{64} \\ & \left(\frac{5}{16}\right) \div (432 - 400 + 9) \times (82) = ? \times \frac{1}{64} \\ & ? = \frac{5}{16} \times \frac{1}{41} \times 82 \times 64 = 40 \end{aligned}$$

### S7. Ans.(a)

$$\begin{aligned} \text{Sol. } & 55\% \text{ of } 900 + 70\% \text{ of } 1050 = ?\% \text{ of } 3000 \\ & \frac{55}{100} \times 900 + \frac{70}{100} \times 1050 = \frac{?}{100} \times 3000 \\ & 495 + 735 = 30 \times ? \\ & 30 \times ? = 1230 \\ & ? = 41 \end{aligned}$$

### S8. Ans.(b)

$$\begin{aligned} \text{Sol. } & 73823 - 34156 + 4756 + 6758 - 9849 = 41499 - \\ & 160 - ? \\ & 41332 = 41339 - ? \\ & ? = 7 \end{aligned}$$

### S9. Ans.(d)

$$\begin{aligned} \text{Sol. } & \frac{5599}{1331} \times \frac{3773}{2036} \times \frac{88}{49} = ? - 6^2 \\ & 14 = ? - 36 \\ & ? = 50 \end{aligned}$$

### S10. Ans.(c)

$$\begin{aligned} \text{Sol. } & 84 \times \frac{1}{4} \div 21^2 + ? = \frac{7}{147} \times 21 - \frac{20}{21} \\ & 84 \times \frac{1}{4} \times \frac{1}{441} + ? = 1 - \frac{20}{21} \\ & \frac{1}{21} + ? = \frac{1}{21} \\ & ? = 0 \end{aligned}$$

### S11. Ans.(e)

$$\begin{aligned} \text{Sol. } & \sqrt{5776} - \sqrt{1444} + \sqrt{729} = 43 + ? \\ & 76 - 38 + 27 = 43 + ? \\ & ? = 65 - 43 = 22 \end{aligned}$$

### S12. Ans.(a)

$$\begin{aligned} \text{Sol. } & 78 \times 26 \div 6 + 1262 = 1311 + (?)^2 \\ & 2028 \div 6 + 1262 = 1311 + (?)^2 \\ & 338 + 1262 = 1311 + (?)^2 \\ & (?)^2 = 1600 - 1311 = 289 \\ & ? = \sqrt{289} = 17 \end{aligned}$$

### S13. Ans.(a)

$$\begin{aligned} \text{Sol. } & 1484 \div 28 + 1462 \div 34 - 12 \times 7 = ? \\ & ? = 53 + 43 - 84 = 12 \end{aligned}$$

### S14. Ans.(c)

$$\begin{aligned} \text{Sol. } & 42.5 \times 15 + 37.5 \times 25 = 1420 + ? \\ & 637.5 + 937.5 = 1420 + ? \\ & ? = 1575 - 1420 = 155 \end{aligned}$$

### S15. Ans.(b)

$$\begin{aligned} \text{Sol. } & 2450 + 3760 - 3830 = 6000 - ? \\ & 2380 = 6000 - ? \\ & ? = 6000 - 2380 = 3620 \end{aligned}$$

### S16. Ans.(a)

$$\begin{aligned} \text{Sol. } & 1749.98 \div 350 \times 49.79 + 111.03 = (?)^2 \\ & \frac{1750}{350} \times 50 + 111 \approx (?)^2 \\ & ? = 19 \end{aligned}$$

### S17. Ans.(a)

$$\begin{aligned} \text{Sol. } & ? \times 625.04 = 15625.01 + 9999.99 \\ & ? \times 625 \approx 15625 + 10000 \\ & ? \approx 41 \end{aligned}$$

### S18. Ans.(c)

$$\begin{aligned} \text{Sol. } & 29.98\% \text{ of } 701 - 350.01 + 82\% \text{ of } 501 = ? \\ & 30\% \text{ of } 700 - 350 + 82\% \text{ of } 500 \approx ? \\ & ? \approx 210 - 350 + 410 \approx 270 \end{aligned}$$

**S19. Ans.(e)**

Sol.  $5759.99 \div 45.01 + 11.99 = ? \times 10.03$   
 $5760 \div 45 + 12 \approx ? \times 10$   
 $? \approx \frac{140}{10} \approx 14$

**S20. Ans.(c)**

Sol.  $1395.98 + 412.04 - 2703.99 = ? - (31.02)^2$   
 $1396 + 412 - 2704 \approx ? - (31)^2$   
 $? \approx 961 - 896 \approx 65$

**S21. Ans.(d)**

Sol.  $41.979 \times \frac{22}{7} + 19.989\% \text{ of } 530.014 - 26.021 = ?$   
 $42 \times \frac{22}{7} + 20\% \text{ of } 530 - 26 \approx ?$   
 $? \approx 132 + 106 - 26 \approx 212$

**S22. Ans.(c)**

Sol.  $(23.012 \times 22.989) + 20.985 \times 7.014 = ?^2$   
 $(23 \times 23) + 21 \times 7 \approx ?^2$   
 $?^2 \approx 529 + 147 \approx 676$   
 $? \approx 26$

**S23. Ans.(a)**

Sol.  $\sqrt{1443.979} \div 18.981 + 3.5 \times \sqrt{16.017} = (?)$   
 $\sqrt{1444} \div 19 + 3.5 \times \sqrt{16} \approx ?$   
 $? \approx \frac{38}{19} + 3.5 \times 4$   
 $? \approx 2 + 14 \approx 16$

**S24. Ans.(e)**

Sol.  $779.98 \div 48.014 \times 15.989 = ?$   
 $\frac{780}{48} \times 16 \approx ?$   
 $? \approx \frac{780}{3} \approx 260$

**S25. Ans.(b)**

Sol.  $1485.988 + 212.04 - 1703.99 = ? - (11.02)^2$   
 $1486 + 212 - 1704 \approx ? - (11)^2$   
 $? \approx 1698 - 1704 + 121 \approx 115$

**S26. Ans.(a)**

Sol.  $\frac{125.98}{154.03} \times \frac{198.02}{17.99} - \frac{156.05}{101.98} \times \frac{51.03}{78.03} = ?$   
 $\frac{126}{154} \times \frac{198}{18} - \frac{156}{102} \times \frac{51}{78} \approx ?$   
 $? \approx 9 - 1 \approx 8$

**S27. Ans.(d)**

Sol.  $80.08\% \text{ of } 349.98 + 45.02\% \text{ of } 799.99 = ?\% \times 255.95$   
 $80\% \text{ of } 350 + 45\% \text{ of } 800 \approx ?\% \times 256$   
 $280 + 360 \approx ?\% \times 256$   
 $? \approx \frac{640}{256} \times 100 = 250$

**S28. Ans.(b)**

Sol.  $\sqrt{1224.99} \div 6.99 = ? - 1799.98$   
 $\sqrt{1225} \div 7 \approx ? - 1800$   
 $5 \approx ? - 1800$   
 $? \approx 1810$

**S29. Ans.(e)**

Sol.  $2744.98 - 1417.99 = ? + 987.98$   
 $2745 - 1418 \approx ? + 988$   
 $? \approx 339$

**S30. Ans.(c)**

Sol.  $?^2 = 44.99\% \text{ of } 4500.02 - 24.99\% \text{ of } 3959.98 + 87.01 \times 2.97$   
 $?^2 \approx 45\% \text{ of } 4500 - 25\% \text{ of } 3960 + 87 \times 3$   
 $?^2 \approx 1296$   
 $? \approx 36$

**S31. Ans.(c)**

Sol. total Samsung mobiles =  $2400 + 4400 + 1800 + 2800 = 11400$

**S32. Ans.(e)**

Sol. required answer =  $(2300 + 2500) - (1800 + 2800) = 200$

**S33. Ans.(d)**

Sol. required % =  $\frac{1800}{2700} \times 100 = 66\frac{2}{3}\%$

**S34. Ans.(a)**

Sol. required ratio =  $(2300 + 2500 + 3500) : (2400 + 4400 + 2800)$   
 $= 83:96$

**S35. Ans.(e)**

Sol. Nokia (2017) =  $\frac{2500-2300}{2300} \times 100 = 8.7\%$

Nokia (2018) =  $\frac{3500-2500}{2500} \times 100 = 40\%$

Samsung (2019) =  $\frac{2800-1800}{1800} \times 100 = 55.55\%$

Nokia (2019) =  $\frac{2700-3500}{3500} \times 100 = 23\%$  (decrease)

Samsung (2017) =  $\frac{4400-2400}{2400} \times 100 = 83.33\%$

Clearly, Samsung in 2017 shows maximum production increase

**S36. Ans.(c)**

Sol.  $\left(\frac{4 \text{ of } 25}{48}\right) \div \left(\frac{5 \text{ of } 32}{4} + \frac{3 \text{ of } 21}{7}\right) = ? \text{ of } \frac{1}{49}$

$\left(\frac{24}{5} \times \frac{25}{48}\right) \div (40 + 9) = ? \times \frac{1}{49}$

$? = 49 \times \frac{5}{98} = \frac{5}{2} = 2.5$

**S37. Ans.(b)**

Sol.  $\sqrt{?} \text{ of } 6 + 20\% \text{ of } 95 = \frac{1}{2} \text{ of } 62$

$\sqrt{?} \text{ of } 6 = \frac{62}{2} - \frac{20}{100} \times 95 = 12$

$? = 2^2 = 4$

**S38. Ans.(e)**

Sol.  $\left(\frac{5}{3} \text{ of } 6\frac{3}{5} \text{ of } \frac{9}{11}\right) + ?^2 = 45$

$\left(\frac{5}{3} \times \frac{33}{5} \times \frac{9}{11}\right) + ?^2 = 45$

$?^2 = 36$

$? = \pm 6$

**S39. Ans.(a)**

Sol.  $\left(\frac{4}{7} \times \frac{14}{5} \div 2\right) - \left(\frac{3}{10} \text{ of } ?\right) = \frac{4}{5} - 3$

$\left(\frac{4}{7} \times \frac{14}{5} \times \frac{1}{2}\right) - \left(\frac{3}{10} \times ?\right) = -\frac{11}{5}$

$\frac{4}{5} - \frac{3}{10} ? = -\frac{11}{5}$

$? = 10$

**S40. Ans.(c)**

$$\text{Sol. } 4\frac{4}{5} + 2\frac{1}{15} - \frac{27}{5} = 2\frac{1}{5} \div 3 \times ?$$

$$\frac{24}{5} + \frac{31}{15} - \frac{27}{5} = \frac{11}{5} \times \frac{1}{3} \times ?$$

$$\frac{22}{15} = \frac{11}{15} \times ?$$

$$? = 2$$

**S41. Ans.(b)**

$$\text{Sol. } 40.02\% \text{ of } 601 - 249.97 \approx ? - 69.98\% \text{ of } 910$$

$$40\% \text{ of } 600 - 250 \approx ? - 70\% \text{ of } 910$$

$$240 - 250 \approx ? - 637$$

$$? \approx 627$$

**S42. Ans.(c)**

$$\text{Sol. } 42001 \div 60 \times 29.95 \approx ? \times 41.99$$

$$\frac{42000}{60} \times 30 \approx ? \times 42$$

$$21000 \approx 42 \times ?$$

$$? \approx 500$$

**S43. Ans.(e)**

$$\text{Sol. } (42.02)^2 + (6.98)^2 - (27.02)^2 \approx (33.01)^2 - ?$$

$$42^2 + 7^2 - 27^2 \approx 33^2 - ?$$

$$1764 + 49 - 729 \approx 1089 - ?$$

$$? \approx 5$$

**S44. Ans.(a)**

$$\text{Sol. } \frac{699.97}{52} \div \frac{11}{207.99} \times \frac{121}{77.02} \approx ?$$

$$\frac{700}{52} \div \frac{11}{208} \times \frac{121}{77} \approx ?$$

$$\frac{700}{52} \times \frac{208}{11} \times \frac{121}{77} \approx ?$$

$$? \approx 400$$

**S45. Ans.(d)**

$$\text{Sol. } 29.97\% \text{ of } ? + \sqrt{399.81} \approx (14.98)^2 + 31.99$$

$$30\% \text{ of } ? + \sqrt{400} \approx 15^2 + 32$$

$$30\% \text{ of } ? + 20 \approx 225 + 32$$

$$30\% \text{ of } ? \approx 237$$

$$? \approx 790$$

**S46. Ans.(b)**

Total spectators of Badminton and kabaddi

$$\text{together} = 14000 \times \frac{23}{100} + 14000 \times \frac{7}{100}$$

$$= 3220 + 980$$

$$= 4200$$

$$\text{Total spectators of cricket and hockey together} = 14000 \times \frac{22}{100} +$$

$$14000 \times \frac{18}{100}$$

$$= 3080 + 2520$$

$$= 5600$$

$$\text{Required percentage} = \frac{4200}{5600} \times 100$$

$$= 75\%$$

**S47. Ans.(c)**

Sol. Total spectators of Football and tennis

$$\text{together} = 14000 \times \frac{16}{100} + 14000 \times \frac{14}{100}$$

$$= 2240 + 1960$$

$$= 4200$$

$$\text{Total spectators of Cricket} = 14000 \times \frac{22}{100} = 3080$$

$$\text{Required ratio} = \frac{4200}{3080}$$

$$= 15:11$$

**S48. Ans.(e)**

Sol. central angle of total spectators of badminton and tennis together

$$= (23+14) \times \frac{360}{100}$$

$$= 133.2^\circ$$

**S49. Ans.(d)**

$$\text{Sol. Total male spectators of hockey} = 14000 \times \frac{18}{100} \times \frac{9}{15}$$

$$= 1512$$

$$\text{Total female spectators of hockey} = 14000 \times \frac{18}{100} \times \frac{6}{15}$$

$$= 1008$$

$$\text{Required difference} = 1512 - 1008$$

$$= 504$$

**S50. Ans.(b)**

Sol. Total spectators of cricket and football

$$\text{together} = 14000 \times \frac{22}{100} + 14000 \times \frac{16}{100}$$

$$= 3080 + 2240$$

$$= 5320$$

Total spectators of badminton and tennis

$$\text{together} = 14000 \times \frac{23}{100} + 14000 \times \frac{14}{100}$$

$$= 3220 + 1960$$

$$= 5180$$

$$\text{Required difference} = 5320 - 5180$$

$$= 140$$

**S51. Ans.(d)**

$$\text{Sol. } 43.495 \times \frac{64.02}{31.99} \times \frac{1}{28.979} - 2.012 = ?$$

$$43.5 \times \frac{64}{32} \times \frac{1}{29} - 2 \approx ?$$

$$? \approx 1$$

**S52. Ans.(b)**

$$\text{Sol. } (33.33 \times 80.989 \div 99.99) + 3.024 - ? = 4.012$$

$$\left(\frac{33.33}{99.99} \times 81\right) + 3 - ? \approx 4$$

$$? \approx 26$$

**S53. Ans.(a)**

$$\text{Sol. } 20.021 + 4.969 + 30.499 - 50.022 = ?$$

$$20 + 5 + 30.5 - 50 \approx ?$$

$$? \approx 5.5$$

**S54. Ans.(c)**

$$\text{Sol. } 995.013 - 39.976 \times 19.99 + 5.022 = 1.988 \times ?$$

$$995 - 40 \times 20 + 5 = 2 \times ?$$

$$? \approx 100$$

**S55. Ans.(e)**

$$\text{Sol. } (10.011)^2 + (23.989)^2 = 275.99 + ?^2$$

$$10^2 + 24^2 = 276 + ?^2$$

$$? = 20$$



**S56. Ans.(c)**

**Sol.**  $\sqrt{256} \times \sqrt{169} + 3600 \div 12 = 800 - ?$   
 $16 \times 13 + 300 = 800 - ?$   
 $208 + 300 = 800 - ?$   
 $? = 800 - 508$   
 $= 292$

**S57. Ans.(a)**

**Sol.**  $? = 37.5 \times 14 + 800 - (26)^2 + 136$   
 $? = 525 + 800 - 676 + 136$   
 $? = 1325 - 540$   
 $= 785$

**S58. Ans.(d)**

**Sol.**  $5430 + 3780 - 6430 = 2260 + ?$   
 $9210 - 6430 = 2260 + ?$   
 $2780 = 2260 + ?$   
 $? = 2780 - 2260$   
 $= 520$

**S59. Ans.(e)**

**Sol.**  $2160 \div 12 + 5740 \div 14 - 3150 \div 15 + ? = 400$   
 $180 + 410 - 210 + ? = 400$   
 $590 - 210 + ? = 400$   
 $? = 400 - 380$   
 $= 20$

**S60. Ans.(a)**

**Sol.**  $\sqrt{3481} \times 7 + \sqrt{5625} \times 4 = 500 + ?$   
 $59 \times 7 + 75 \times 4 = 500 + ?$   
 $413 + 300 = 500 + ?$   
 $? = 713 - 500$   
 $= 213$

**S61. Ans.(d)**

**Sol.** addition of prime numbers  
 Pattern is  
 $31 + 2 = 33$   
 $33 + 3 = 36$   
 $36 + 5 = 41$   
 $41 + 7 = 48$   
 $48 + 11 = 59$

**S62. Ans.(e)**

**Sol.** Pattern is  
 $6 \times 6 = 36$   
 $36 \times 5 = 180$   
 $180 \times 4 = 720$   
 $720 \times 3 = 2160$   
 $2160 \times 2 = 4320$

**S63. Ans.(b)**

**Sol.** Pattern is  
 $23 + 6 = 29$   
 $29 + 6 = 35$   
 $35 + 6 = 41$   
 $41 + 6 = 47$   
 $47 + 6 = 53$

**S64. Ans.(d)**

**Sol.**  $1 + 2^2 = 5$   
 $5 + 3^2 = 14$   
 $14 + 4^2 = 30$   
 $30 + 5^2 = 55$   
 $55 + 6^2 = 91$

**S65. Ans.(c)**

**Sol.** Pattern is  
 $5 + (5 \times 1) = 10$   
 $10 + (5 \times 2) = 20$   
 $20 + (5 \times 3) = 35$   
 $35 + (5 \times 4) = 55$   
 $55 + (5 \times 5) = 80$

**S66. Ans.(c)**

**Sol.**  
 280 295 325 370 430 505  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $+15 \quad +30 \quad +45 \quad +60 \quad +75$   
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $+15 \quad +15 \quad +15 \quad +15$

**S67. Ans.(e)**

**Sol.**  
 4 2 3 7.5 26.25 118.125  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $\times 0.5 \quad \times 1.5 \quad \times 2.5 \quad \times 3.5 \quad \times 4.5$

**S68. Ans.(a)**

**Sol.**  
 $+12 \quad +12$   
 18 25 30 37 42 49  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $+12 \quad +12$

**S69. Ans.(d)**

**Sol.**  
 1 2 4 8 16 32  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $\times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2$

**S70. Ans.(b)**

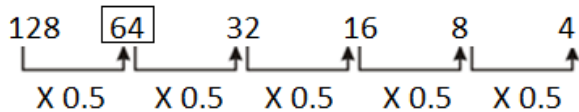
**Sol.**  
 121 144 169 196 225 256  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $11^2 \quad 12^2 \quad 13^2 \quad 14^2 \quad 15^2 \quad 16^2$

**S71. Ans.(d)**

**Sol.**  
 21 22 26 35 51 76  
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $+1 \quad +4 \quad +9 \quad +16 \quad +25$   
 $\uparrow \quad \uparrow \quad \uparrow \quad \uparrow \quad \uparrow$   
 $1^2 \quad 2^2 \quad 3^2 \quad 4^2 \quad 5^2$

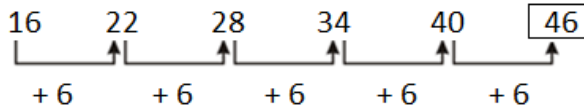
S72. Ans.(a)

Sol.



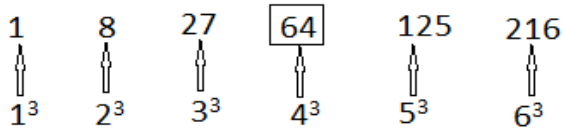
S73. Ans.(b)

Sol.



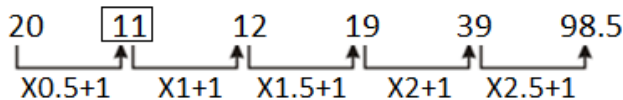
S74. Ans.(e)

Sol.



S75. Ans.(c)

Sol.



S76. Ans.(c)

Sol. Pattern is

$$-5 \times 2 = -10$$

$$-10 \times 1.5 = -15$$

$$-15 \times 2 = -30$$

$$-30 \times 1.5 = -45$$

$$-45 \times 2 = -90$$

$$-90 \times 1.5 = -135$$

wrong number is -180 which should be replaced with -135

S77. Ans.(d)

Sol. Pattern is

$$5 \times 2 = 10$$

$$10 \times 3 = 30$$

$$30 \times 4 = 120$$

$$120 \times 5 = 600$$

$$600 \times 6 = 3600$$

$$3600 \times 7 = 25200$$

wrong number is 3000 which should be replaced with 3600

S78. Ans.(a)

Sol. Pattern is

$$-12 + 6 = -6;$$

$$-6 + 6 = 0$$

$$0 + 6 = 6;$$

$$6 + 6 = 12$$

$$12 + 6 = 18;$$

$$18 + 6 = 24$$

wrong number is 2 which should be replaced with 0

S79. Ans.(d)

Sol. Pattern is

$$599 - (9 + 0) = 590$$

$$590 - (9 + 1) = 580$$

$$580 - (9 + 2) = 569$$

$$569 - (9 + 3) = 557$$

$$557 - (9 + 4) = 544$$

$$544 - (9 + 5) = 530$$

wrong number is 591 which should be replaced with 590

S80. Ans.(b)

Sol. Pattern is

$$700 + 10 = 710$$

$$710 - 30 = 680$$

$$680 + 10 = 690$$

$$690 - 30 = 660$$

$$660 + 10 = 670$$

$$670 - 30 = 640$$

(Alternate addition of 10 and subtraction of 30 is followed in the given pattern)

S81. Ans.(b)

Sol. Pattern is

$$10^2 + 10 = 110$$

$$12^2 + 12 = 156$$

$$14^2 + 14 = 210$$

$$16^2 + 16 = 272$$

$$18^2 + 18 = 342$$

$$20^2 + 20 = 420$$

$$22^2 + 22 = 506$$

wrong number is 282 which should be replaced with 272

S82. Ans.(d)

Sol. Pattern is

$$2000 \times 1 = 2000$$

$$2000 \div 2 = 1000$$

$$1000 \times 3 = 3000$$

$$3000 \div 4 = 750$$

$$750 \times 5 = 3750$$

$$3750 \div 6 = 625$$

wrong number is 600 which should be replaced with 750

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**S83. Ans.(a)****Sol.** Pattern is

$2 \times 1 + 0 = 2$

$2 \times 2 + 1 = 5$

$5 \times 3 + 2 = 17$

$17 \times 4 + 3 = 71$

$71 \times 5 + 4 = 359$

$359 \times 6 + 5 = 2159$

wrong number is 72 which should be replaced with 71

**S84. Ans.(e)****Sol.** Pattern is

$9000 - (180 \times 6) = 7920$

$7920 - (180 \times 5) = 7020$

$7020 - (180 \times 4) = 6300$

$6300 - (180 \times 3) = 5760$

$5760 - (180 \times 2) = 5400$

$5400 - (180 \times 1) = 5220$

wrong number is 5200 which should be replaced with 5220

**S85. Ans.(d)****Sol.** Pattern is

$100 + (4 \times 5) = 120$

$120 + (5 \times 6) = 150$

$150 + (6 \times 7) = 192$

$192 + (7 \times 8) = 248$

$248 + (8 \times 9) = 320$

$320 + (9 \times 10) = 410$

wrong number is 154 which should be replaced with 150

**S86. Ans.(c)****Sol.** Pattern is

$11^2 + 11 = 132$

$12^2 + 12 = 156$

$13^2 + 13 = 182$

$14^2 + 14 = 210$

$15^2 + 15 = 240$

$16^2 + 16 = 272$

$17^2 + 17 = 306$

wrong number is 235 which should be replaced with 240

**S87. Ans.(a)****Sol.** Pattern is

100	148	220	316	436	580	748
+48	+72	+96	+120	+144	+168	
	+24	+24	+24	+24	+24	

wrong number is 752 which should be replaced with 748

**S88. Ans.(d)****Sol.** Pattern is

$12 \times 0.5 = 6$

$6 \times 1 = 6$

$6 \times 2 = 12$

$12 \times 4 = 48$

$48 \times 8 = 384$

$384 \times 16 = 6144$

wrong number is 382 which should be replaced with 384

**S89. Ans.(b)****Sol.** Pattern is

$140 - 3 = 137$

$137 - 6 = 131$

$131 - 9 = 122$

$122 - 12 = 110$

$110 - 15 = 95$

$95 - 18 = 77$

wrong number is 120 which should be replaced with 122

**S90. Ans.(c)****Sol.** Pattern is

$16 \times 0.5 + 1 = 9$

$9 \times 1 + 1 = 10$

$10 \times 1.5 + 1 = 16$

$16 \times 2 + 1 = 33$

$33 \times 2.5 + 1 = 83.5$

$83.5 \times 3 + 1 = 251.5$

wrong number is 34 which should be replaced with 33

**S91. Ans.(e)****Sol.** I.  $x^2 + 5x + 6 = 0$ 

$x^2 + 3x + 2x + 6 = 0$

$(x + 3)(x + 2) = 0$

$x = -2, -3$

II.  $y^2 + 9y + 14 = 0$ 

$y^2 + 7y + 2y + 14 = 0$

$(y + 2)(y + 7) = 0$

$y = -2, -7$

Clearly, no relation can be established

**S92. Ans.(b)****Sol.** I.  $x^2 - 18x + 45 = 0$ 

$x^2 - 15x - 3x + 45 = 0$

$(x - 3)(x - 15) = 0$

$x = 3, 15$

II.  $y^2 + 12y - 45 = 0$ 

$y^2 + 15y - 3y - 45 = 0$

$(y - 3)(y + 15) = 0$

$y = 3, -15$

Clearly,  $x \geq y$ **S93. Ans.(e)****Sol.** I.  $9x^2 + 11x + 2 = 0$ 

$9x^2 + 9x + 2x + 2 = 0$

$(9x + 2)(x + 1) = 0$

$x = -\frac{2}{9}, -1$

II.  $8y^2 + 6y + 1 = 0$ 

$8y^2 + 4y + 2y + 1 = 0$

$(4y + 1)(2y + 1) = 0$

$y = -\frac{1}{2}, -\frac{1}{4}$

Clearly, no relation can be established

**S94. Ans.(c)**

**Sol. I.**  $6x^2 + 5x + 1 = 0$

$6x^2 + 3x + 2x + 1 = 0$

$(3x + 1)(2x + 1) = 0$

$x = -\frac{1}{3}, -\frac{1}{2}$

**II.**  $4y^2 - 15y = 4$

$4y^2 - 16y + y - 4 = 0$

$(4y + 1)(y - 4) = 0$

$y = -\frac{1}{4}, 4$

Clearly,  $x < y$ **S95. Ans.(c)**

**Sol. I.**  $x^2 + 3x = 0$

$x(x + 3) = 0$

$x = 0, -3$

**II.**  $x^2 + y = 10$

$y = 10 - x^2$

if  $x = 0, y = 10$

if  $x = -3, y = 10 - (-3)^2 = 1$

Clearly,  $x < y$ **S96. Ans.(c)**

**Sol. I.**  $x^2 - 25x + 156 = 0$

$x^2 - 12x - 13x + 156 = 0$

$x(x - 12) - 13(x - 12) = 0$

$(x - 12)(x - 13) = 0$

$x = 12, 13$

**II.**  $y^2 - 29y + 210 = 0$

$y^2 - 14y - 15y + 210 = 0$

$y(y - 14) - 15(y - 14) = 0$

$(y - 14)(y - 15) = 0$

$y = 14, 15$

So,  $x < y$ **S97. Ans.(d)**

**Sol. I.**  $x^2 = 196$

$x = \sqrt{196}$

$x = \pm 14$

**II.**  $y = \sqrt{196}$

$y = 14$

So,  $x \leq y$ **S98. Ans.(e)**

**Sol. I.**  $x^2 + 12x + 35 = 0$

$x^2 + 5x + 7x + 35 = 0$

$x(x + 5) + 7(x + 5) = 0$

$(x + 5)(x + 7) = 0$

$x = -5, -7$

**II.**  $y^2 + 14y + 48 = 0$

$y^2 + 6y + 8y + 48 = 0$

$y(y + 6) + 8(y + 6) = 0$

$(y + 8)(y + 6) = 0$

$y = -8, -6$

So, no relation.

**S99. Ans.(a)**

**Sol. I.**  $3x^2 + 23x + 30 = 0$

$3x^2 + 18x + 5x + 30 = 0$

$3x(x + 6) + 5(x + 6) = 0$

$(3x + 5)(x + 6) = 0$

$x = -6, -\frac{5}{3}$

**II.**  $y^2 + 15y + 56 = 0$

$y^2 + 8y + 7y + 56 = 0$

$y(y + 8) + 7(y + 8) = 0$

$(y + 7)(y + 8) = 0$

$y = -7, -8$

So,  $x > y$ **S100. Ans.(c)**

**Sol. I.**  $x^2 + 17x + 72 = 0$

$x^2 + 8x + 9x + 72 = 0$

$x(x + 8) + 9(x + 8) = 0$

$(x + 9)(x + 8) = 0$

$x = -8, -9$

**II.**  $y^2 + 13y + 42 = 0$

$y^2 + 6y + 7y + 42 = 0$

$y(y + 6) + 7(y + 6) = 0$

$(y + 6)(y + 7) = 0$

$y = -6, -7$

So,  $x < y$ **S101. Ans.(d)**

**Sol. I.**  $x^2 + 23x + 132 = 0$

$x^2 + 12x + 11x + 132 = 0$

$x(x + 12) + 11(x + 12) = 0$

$(x + 11)(x + 12) = 0$

$x = -11, -12$

**II.**  $y^2 + 21y + 110 = 0$

$y^2 + 11y + 10y + 110 = 0$

$y(y + 11) + 10(y + 11) = 0$

$(y + 10)(y + 11) = 0$

$y = -10, -11$

So,  $x \leq y$ **S102. Ans.(e)**

**Sol. I.**  $3x^2 + 20x + 32 = 0$

$3x^2 + 12x + 8x + 32 = 0$

$3x(x + 4) + 8(x + 4) = 0$

$(3x + 8)(x + 4) = 0$

$x = -4, -\frac{8}{3}$

**II.**  $5y^2 + 23y + 24 = 0$

$5y^2 + 15y + 8y + 24 = 0$

$5y(y + 3) + 8(y + 3) = 0$

$(y + 3)(5y + 8) = 0$

$y = -3, -\frac{8}{5}$

So, No relation exists

**S103. Ans.(a)**

**Sol. I.**  $x^2 - 29x + 208 = 0$

$x^2 - 13x - 16x + 208 = 0$

$x(x-13) - 16(x-13) = 0$

$(x-16)(x-13) = 0$

$x = 16, 13$

**II.**  $y^2 - 21y + 108 = 0$

$y^2 - 9y - 12y + 108 = 0$

$y(y-9) - 12(y-9) = 0$

$(y-12)(y-9) = 0$

$y = 9, 12$

So,  $x > y$

**S104. Ans.(a)**

**Sol. I.**  $x^2 + 30x + 224 = 0$

$x^2 + 14x + 16x + 224 = 0$

$x(x+14) + 16(x+14) = 0$

$(x+16)(x+14) = 0$

$x = -16, -14$

**II.**  $y^2 + 35y + 306 = 0$

$y^2 + 18y + 17y + 306 = 0$

$y(y+18) + 17(y+18) = 0$

$(y+18)(y+17) = 0$

$y = -18, -17$

So,  $x > y$

**S105. Ans.(b)**

**Sol.**  $x = \sqrt[3]{4096}$

$x = 16$

$y^2 = 256$

$y = \sqrt{256}$

$= \pm 16$

So,  $x \geq y$

**S106. Ans.(c)**

**Sol.** Total interest received in 8 yrs =  $2408 - 1400 = \text{Rs } 1008$

Interest for 1<sup>st</sup> 4 years =  $\frac{1400 \times 4 \times 12}{100} = \text{Rs } 672$

So, interest for last 4 years =  $1008 - 672 = \text{Rs } 336$

Interest rate for last 4 years =  $\frac{336 \times 100}{1400 \times 4} = 6\%$

**S107. Ans.(c)**

**Sol.**  $\frac{1}{P} + \frac{1}{Q} = \frac{1}{15}$  ..... (1)

$\frac{1}{P} + \frac{1}{Q} + \frac{1}{R} = \frac{1}{9}$  ..... (2)

By subtracting eqn (1) from (2), we get

$\frac{1}{R} = \frac{1}{9} - \frac{1}{15}$

$\frac{1}{R} = \frac{5-3}{45}$

$\frac{1}{R} = \frac{2}{45}$

$R = 22.5$  days

**S108. Ans.(b)****Sol.** Let speed of Ravi and Maanik be  $3x$  km/hr and  $4x$  km/hr respectively

Relative speed =  $3x + 4x = 7x$  km/hr

$7x \times \frac{3}{60} = 4.2$

$x = 12$  km/hr

Difference in their speed =  $4x - 3x = x = 12$  km/hr

**S109. Ans.(c)****Sol.** Let leak empty it in  $x$  hr, then

$\frac{1}{15} - \frac{1}{x} = \frac{1}{18}$

$\frac{1}{x} = \frac{1}{15} - \frac{1}{18}$

$x = 90$  hrs

**S110. Ans.(d)****Sol.** Let present age of suman's son be  $x$  yrHence, age of suman =  $(x+25)$  yr

According to the question,  $\frac{x+7}{(x+25)+7} = \frac{1}{2}$

$2x+14 = x+32$

$x = 32 - 14 = 18$  yrs

**S111. Ans.(a)****Sol.** let smallest even & odd number be  $a$  &  $b$  respectively.

ATQ,  $\frac{a+a+2+a+4+a+6}{4} = \frac{b+b+2+b+4}{3} + 10$

$\frac{4a+12}{4} = \frac{3b+6}{3} + 10$

$a = b + 9$

Also,  $a + 6 = 2(b) \Rightarrow a = 2b - 6$

$2b - 6 = b + 9 \Rightarrow b = 15$

$a = 24$

Numbers are 24, 26, 28, 30 (even); 15, 17, 19 (odd)

Required average =  $\frac{[(24+26+28+30)+(15+17+19)]}{7} = \frac{159}{7} = 22\frac{5}{7}$

**S112. Ans.(e)****Sol.** let CP be Rs.  $x$ 

MP =  $\frac{130}{100} \times x = \text{Rs. } 1.3x$

SP (given) =  $\frac{90}{100} \times 1.3x = \text{Rs. } 1.17x$

Earlier SP (announced) =  $\frac{85}{100} \times 1.3x = \text{Rs. } 1.105x$

Gain =  $1.17x - 1.105x = \text{Rs. } 0.065x$

$0.065x = 13$

$x = \text{Rs. } 200$

**S113. Ans.(a)**

**Sol.** required probability =  $\frac{{}^{20}C_1 \times {}^{10}C_1}{{}^{30}C_2} = \frac{20 \times 10 \times 2}{30 \times 29} = \frac{40}{87}$

**S114. Ans.(e)****Sol.** no two vowel come together means vowel at alternate place

Required no. of words =  $7C_3 \times \frac{3!}{2!} \times \frac{6!}{2!} = 37800$

**S115. Ans.(e)**

**Sol.** distance covered by Sanjay in 20 min =  $5 \times \frac{20}{60} = \frac{5}{3}$  km

Time taken to catch Sanjay by Anurag =  $\frac{\frac{5}{3}}{12-5} = \frac{5}{21}$  hours

Distance covered by Anurag to catch Sanjay

$= 12 \times \frac{5}{21} = \frac{20}{7}$  km  $\approx 3$  kms

**S116. Ans.(b)**

**Sol.** let side of 4 squares be a,b,c & d cm respectively

$$a = \frac{24}{4} = 6 \text{ cm}$$

$$b = \frac{32}{4} = 8 \text{ cm}$$

$$c = \frac{40}{4} = 10 \text{ cm}$$

$$d = \frac{48}{4} = 12 \text{ cm}$$

$$\text{Perimeter of new square} = a + b + c + d = 6 + 8 + 10 + 12 = 36 \text{ cm}$$

$$4(\text{side}) = 36$$

$$\text{side} = 9 \text{ cm}$$

$$\text{Required area} = \text{side}^2 = 9^2 = 81 \text{ cm}^2$$

**S117. Ans.(a)**

**Sol.** ATQ,

$$\frac{x \times 14 \times 3}{100} - \frac{x \times 10 \times 3}{100} = 120$$

$$\frac{(42-30)x}{100} = 120$$

$$x = \text{Rs. } 1000$$

$$\text{Required answer} = 5x = 5 \times 1000 = \text{Rs. } 5000$$

**S118. Ans.(b)**

**Sol.** 1 day wage of a man & a woman =  $\frac{1000}{8} = \text{Rs. } 125$

Efficiency ratio *man* : *woman* = 4 : 1

$$\text{Daily wage of a woman} = \frac{125}{5} \times 1 = \text{Rs. } 25$$

**S119. Ans.(d)**

**Sol.** let Anurag got x marks

$$\text{Marks obtained by Mahesh} = \frac{130}{100} \times x = 1.3x$$

$$\text{Marks obtained by Sanjay} = \frac{80}{100} \times 1.3x = 1.04x$$

$$\text{Marks obtained by Karan} = \frac{125}{100} \times 1.04x = 1.3x$$

$$\text{Required \%} = \frac{1.3x-x}{x} \times 100 = 30\%$$

**S120. Ans.(b)**

**Sol.** let total students would be 10x

$$\text{Passed students} = \frac{10x}{10} \times 9 = 9x$$

$$\text{Failed students} = 10x - 9x = x$$

$$\text{ATQ, } \frac{9x-6}{x+6} = \frac{21}{4}$$

$$36x - 24 = 21x + 126$$

$$15x = 150$$

$$x = 10$$

$$\text{Total students} = 10x = 10 \times 10 = 100$$

**S121. Ans.(d)**

**Sol.** let his total expenditure be Rs. x in July

$$\text{Savings} = \frac{40}{100} \times x \times \frac{1}{2} = \text{Rs. } \frac{x}{5}$$

$$\text{ATQ, } x + \frac{x}{5} = 12000$$

$$x = \text{Rs. } 10000$$

$$\text{Expenditure on food} = \frac{30}{100}x = \frac{30}{100} \times 10000 = \text{Rs. } 3000$$

**S122. Ans.(a)**

**Sol.** let salary & savings be Rs. x & Rs. y respectively for March & June

$$\text{Expenditure in March} = \text{expenditure in June} = \text{Rs. } (x - y)$$

$$\text{Expenditure on travel in March} = \text{Rs. } \frac{35}{100} \times (x - y)$$

$$\text{Expenditure on food in June} = \text{Rs. } \frac{40}{100} \times (x - y)$$

$$\text{Required \%} = \frac{35}{40} \times 100 = 87.5\%$$

**S123. Ans.(e)**

**Sol.** let total expenditure in May & July is Rs. 5x & Rs. 4x respectively.

$$\text{Required ratio} = \left(\frac{35}{100}\right) \times 5x : \left(\frac{30}{100}\right) \times 4x = 35 : 24$$

**S124. Ans.(c)**

$$\text{Sol. expenditure in March} = \frac{90}{100} \times 5000 = \text{Rs. } 4500$$

$$\text{Expenditure on rent in March} = \frac{40}{100} \times 4500 = \text{Rs. } 1800$$

$$\text{Expenditure in July} = \frac{90}{100} \times 8000 = \text{Rs. } 7200$$

$$\text{Expenditure on rent in July} = \frac{40}{100} \times 7200 = \text{Rs. } 2880$$

$$\text{Required average} = \frac{1800+2880}{2} = \text{Rs. } 2340$$

**S125. Ans.(c)**

**Sol.** let equal expenditure be Rs. x.

$$\text{Required \%} = \frac{\frac{35}{100}x - \frac{30}{100}x}{\frac{30}{100}x} \times 100 = \frac{5}{30} \times 100 = 16.67\%$$

**S126. Ans.(b)**

**Sol.** Total number of students who have opted for MBBS in all the colleges together

$$= 700 \times \frac{40}{100} + 800 \times \frac{25}{100} + 400 \times \frac{32}{100} + 900 \times \frac{36}{100}$$

$$= 932$$

$$\text{Required average} = \frac{932}{4} = 233$$

**S127. Ans.(d)**

**Sol.** Total no. of students who have opted for both Engg. and MBBS together in college Q

$$= 800 \times \frac{40}{100} + 800 \times \frac{25}{100}$$

$$= 520$$

Total no. of students who have opted for both Engg. and MBBS together in college R

$$= 400 \times \frac{44}{100} + 400 \times \frac{32}{100}$$

$$= 304$$

$$\text{Required ratio} = \frac{520}{304}$$

$$= 65 : 38$$

**S128. Ans.(a)**

**Sol.** Total number of students who have opted for MBBS in college P =  $700 \times \frac{40}{100} = 280$

Total number of students who have opted for the engg. in college Q =  $800 \times \frac{40}{100} = 320$

$$\text{Required percentage} = \frac{280}{320} \times 100 = 87.5\%$$



**S129. Ans.(c)**

**Sol.** Total number of students who have opted for engg. stream in college R =  $400 \times \frac{44}{100} = 176$

Total number of students who have opted for engg. stream in college P =  $700 \times \frac{32}{100} = 224$

Required ratio =  $\frac{176}{224}$

= 11 : 14

**S130. Ans.(b)**

**Sol.** Total student in pharmacy in college P =  $700 \times \frac{28}{100} = 196$

Total student in pharmacy in college Q =  $800 \times \frac{35}{100} = 280$

Total student in pharmacy in college R =  $400 \times \frac{24}{100} = 96$

Total student in pharmacy in college S =  $900 \times \frac{22}{100} = 198$

So, maximum no. of student is in college Q in pharmacy

Total student in engg. in college P =  $700 \times \frac{32}{100} = 224$

Total student in engg. in college Q =  $800 \times \frac{40}{100} = 320$

Total student in engg. in college R =  $400 \times \frac{44}{100} = 176$

Total student in engg. in college S =  $900 \times \frac{42}{100} = 378$

So, Maximum no. of student is in college S in engg.

Therefore, required pair is Q & S

**S131. Ans.(d)**

**Sol.** required difference = average marks scored by Student A - Average marks scored by Student B

$$\therefore \frac{70+90+60+55}{4} - \frac{50+80+75+65}{4} = \frac{5}{4} = 1.25$$

**S132. Ans.(c)**

**Sol.** marks obtained by student A in Math and Computer together =  $70 + 90 = 160$

marks obtained by student B in Science and English together =  $75 + 65 = 140$

required ratio =  $160:140 = 8:7$

**S133. Ans.(b)**

**Sol.** Overall percentage marks of Student B

$$= \frac{50+80+75+65}{400} \times 100 = 67.5$$

**S134. Ans.(c)**

**Sol.** Marks Scored by Student A in Math = 70

Marks Scored by Student B in Science and English =  $75 + 65 = 140$

$$\text{Required \%} = \frac{70}{140} \times 100 = 50\%$$

**S135. Ans.(b)**

**Sol.** A.T.Q, passing marks =  $\frac{40}{100} \times 120 = 48$

$\therefore$  required difference =  $80 - 48 = 32$

**S136. Ans.(c)**

**Sol.** amount received by Rohit =  $4000 + \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 4800$

**S137. Ans.(e)**

**Sol.** interest amount received by Karan =  $\frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$

Interest amount received by Mahesh =  $\frac{6000 \times 12 \times 4}{100} = \text{Rs. } 2880$

$$\text{Required \%} = \frac{2880 - 1600}{1600} \times 100 = 80\%$$

**S138. Ans.(d)**

**Sol.** total interest amount received by Anurag & Rohit together

$$= \frac{4000 \times 16 \times 4}{100} + \frac{4000 \times 10 \times 2}{100} = \text{Rs. } 3360$$

**S139. Ans.(a)**

**Sol.** interest received by Karan (SI) =  $\frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$

Interest received by Karan (CI) =  $8000 \left(1 + \frac{10}{100}\right)^2 - 8000 = \text{Rs. } 1680$

Required value =  $1680 - 1600 = \text{Rs. } 80$

**S140. Ans.(e)**

**Sol.** Interest received by Karan =  $\frac{8000 \times 10 \times 2}{100} = \text{Rs. } 1600$

Interest received by Anurag =  $\frac{4000 \times 16 \times 4}{100} = \text{Rs. } 2560$

Interest received by Mahesh =  $\frac{6000 \times 12 \times 4}{100} = \text{Rs. } 2880$

Interest received by Rohit =  $\frac{4000 \times 10 \times 2}{100} = \text{Rs. } 800$

Clearly, Mahesh had received highest interest

**S141. Ans.(b)**

**Sol.** let side of larger & smaller square be a & b cm respectively.

$$a - b = 3$$

$$a^2 - b^2 = 36$$

$$(a - b)(a + b) = 36$$

$$(a + b) = 12$$

$$\text{Side of larger square} = a = \frac{12+3}{2} = 7.5 \text{ cm}$$

**S142. Ans.(c)**

**Sol.** A.T.Q,  $\frac{P \times 10 \times 2}{100} + 200 = \frac{P \times 20 \times x}{100}$

$$\frac{20Px}{100} - 200 = \frac{20P}{100}$$

$$\frac{20P}{100} = \frac{20 \times 5000}{100} - 200 = 800$$

$$P = \text{Rs. } 4000$$

$$x = \frac{5000}{4000} = \frac{5}{4} \text{ years or 15 months}$$





**S143. Ans.(b)**

**Sol.** 1 day wage of 4 men & 3 children =  $\frac{600}{3} = \text{Rs. } 200$

Let efficiency of a man & a child be M & C units/day respectively

Equating total work,

$$(4M + 3C) \times 3 = M \times 15$$

$M : C = 3 : 1$  (this is also ratio of daily wage)

$$\text{Daily wage of a man} = \frac{3}{15} \times 200 = \text{Rs. } 40$$

**S144. Ans.(d)**

**Sol.** ATQ,  $\frac{50}{100}y - \frac{10}{100}x = 170$

$$\frac{40}{100}x = \frac{30}{100}y \Rightarrow \frac{x}{y} = \frac{3}{4}$$

$$\frac{50}{100} \times \frac{4}{3}x - \frac{10}{100}x = 170$$

$$x = 300 \Rightarrow y = 400$$

$$\text{Required answer} = x + y = 300 + 400 = 700$$

**S145. Ans.(c)**

**Sol.** let Pandey's salary & savings be Rs.  $16x$  & Rs.  $3x$  respectively.

$$\text{Expenditure} = 16x - 3x = \text{Rs. } 13x$$

$$\text{New savings} = 3x + \frac{1}{3} \times 3x = \text{Rs. } 4x$$

$$\text{New expenditure} = 13x + \frac{1}{2} \times 13x = \text{Rs. } 19.5x$$

$$\text{New salary} = 19.5x + 4x = \text{Rs. } 23.5x$$

$$\text{Required ratio} = 23.5x : 16x = 47 : 32$$

**S146. Ans.(e)**

**Sol.** Pattern is

$$6 \times 1 + 1 = 7$$

$$7 \times 2 + 2 = 16$$

$$16 \times 3 + 3 = 51$$

$$51 \times 4 + 4 = 208$$

$$208 \times 5 + 5 = 1045$$

**S147. Ans.(c)**

**Sol.** Pattern is

$$2000 + (8)^2 = 2064$$

$$2064 + (10)^2 = 2164$$

$$2164 + (12)^2 = 2308$$

$$2308 + (14)^2 = 2504$$

$$2504 + (16)^2 = 2760$$

**S148. Ans.(b)**

**Sol.** Pattern is

$$800 - (5 \times 6) = 770$$

$$770 - (6 \times 7) = 728$$

$$728 - (7 \times 8) = 672$$

$$672 - (8 \times 9) = 600$$

$$600 - (9 \times 10) = 510$$

**S149. Ans.(a)**

**Sol.** Pattern is

$$500 + 48 = 548$$

$$548 + 72 = 620$$

$$620 + 96 = 716$$

$$716 + 120 = 836$$

$$836 + 144 = 980$$

**S150. Ans.(d)**

**Sol.** Pattern is

$$10 \times 2 = 20$$

$$20 \times 3 = 60$$

$$60 \times 5 = 300$$

$$300 \times 7 = 2100$$

$$2100 \times 11 = 23100$$

**S151. Ans.(d)**

**Sol.** total watches manufactured by Casio, Titan & Sonata

$$= \frac{20+15+25}{100} \times 1000 = 600$$

$$\text{required average} = \frac{600}{3} = 200$$

**S152. Ans.(c)**

$$\text{Sol. required ratio} = \frac{10+25}{100} \times 1000 : \frac{20+20}{100} \times 1000 = 7 : 8$$

**S153. Ans.(b)**

$$\text{Sol. watches manufactured of Sonata} = \frac{25}{100} \times 1000 = 250$$

$$\text{Watches manufactured of Rado} = \frac{10}{100} \times 1000 = 100$$

$$\text{Required \%} = \frac{250-100}{100} \times 100 = 150\%$$

**S154. Ans.(e)**

**Sol.** in next year

$$\text{No. of Titan watches manufactured} = \frac{110}{100} \times \frac{15}{100} \times 1000 = 165$$

$$\text{No. of Timex watches manufactured} = \frac{90}{100} \times \frac{10}{100} \times 1000 = 90$$

$$\text{Required difference} = 165 - 90 = 75$$

**S155. Ans.(b)**

$$\text{Sol. Average no. of watches manufactured} = \frac{1000}{6} = 166.67$$

Watches manufactured

$$\text{Casio} = \frac{20}{100} \times 1000 = 200$$

$$\text{Titan} = \frac{15}{100} \times 1000 = 150$$

$$\text{Sonata} = \frac{25}{100} \times 1000 = 250$$

$$\text{Timex} = \frac{10}{100} \times 1000 = 100$$

$$\text{Fossil} = \frac{20}{100} \times 1000 = 200$$

$$\text{Rado} = \frac{10}{100} \times 1000 = 100$$

Required answer = Casio, Sonata, Fossil = 3

**S156. Ans.(b)**

$$\text{Sol. } \frac{60-10}{2.5} = ?$$

$$? = 20$$

**S157. Ans.(d)**

**Sol.**  $10000 = ? \times 40$

$? = 250$

**S158. Ans.(a)**

**Sol.**  $9 \times 3 + 1107 + 42 = ?$

$? = 1176$

**S159. Ans.(e)**

**Sol.**  $299 + 999 + 302 = ?$

$? = 1600$

**S160. Ans.(b)**

**Sol.**  $493 + 287 - 334 + 54 = ? \times 5$

$? = 100$

**S161. Ans.(a)**Let speed of train be  $x$  m/s and its length be  $L$  metresAccording to 1<sup>st</sup> condition

$L = 15x \dots\dots (1)$

According to 2<sup>nd</sup> condition

$L + 500 = 45x \dots\dots (2)$

From (1) and (2), we will get

$500 = 30x$

$15x = 250 \text{ m}$

Therefore, length of train is 250 metres

**S162. Ans.(c)****Sol.** let speed of stream be  $x$  km/hrSpeed of boat in still water =  $4x$  km/hr

$\frac{220}{4x+x} + \frac{108}{4x-x} = 20$

$\frac{220}{5x} + \frac{108}{3x} = 20$

$\frac{44}{x} + \frac{36}{x} = 20$

$\frac{80}{x} = 20$

$x = 4 \text{ km/hr}$

speed of stream = 4 km/hr

speed of boat in still water =  $4x = 16 \text{ km/hr}$ 

Reqd. sum =  $\frac{40}{20} + \frac{48}{12} = 2 + 4 = 6 \text{ hrs}$

**S163. Ans.(d)****Sol.** Let side of square be  $a$  and length and breadth of rectangle be  $l$  and  $b$  respectively

$4a = 2[2(l+b)]$

$4a = 4(l+b)$

$a = l+b$

it is given that  $l \times b = 36$ But, we can't determine value of  $l+b$ 

Hence, area of square cannot be determined.

**S164. Ans.(d)****Sol.** Let ratio of P's investment and Q's investment be  $x:y$ Therefore, profit will be shared in the ratio  $4x:5y$ 

Given,  $\frac{4x}{4x+5y} \times 75000 = 15000$

$\frac{4x}{4x+5y} = \frac{1}{5}$

$20x = 4x + 5y$

$16x = 5y$

$y : x = 16:5$

**S165. Ans.(b)****Sol.** Total number of letters = 8

And, there are 3 vowels in it, therefore these 3 vowels are considered as a single word

Therefore, total letter = 6

Required numbers of ways =  $6! \times 3! = 4320$ **Solutions (166-170)**Let the number of pen and pencil sold by A be  $7x$  and  $5x$  respectively and that of by B be  $3y$  and  $2y$  respectively.Total numbers of pen and pencil sold by A and B =  $7x + 5x + 3y + 2y$ 

$12x + 5y = 874 - 128$

$12x + 5y = 746$

Now,

$7x = 3y \times \frac{110}{100}$

$x = \frac{33y}{70}$

$12x + 5y = 746$

$12 \times \frac{33y}{70} + 5y = 746$

$396y + 350y = 746 \times 70$

$y = \frac{746 \times 70}{746} = 70$

$x = \frac{33y}{70} = \frac{33 \times 70}{70} = 33$

	A	B	C
Pen	$7x = 7 \times 33$ $= 231$	$3y = 3 \times 70$ $= 210$	$5z = \frac{128}{8} \times 5$ $= 80$
Pencil	$5x = 5 \times 33$ $= 165$	$2y = 2 \times 70$ $= 140$	$3z = \frac{128}{8} \times 3$ $= 48$

**S166. Ans.(c)****Sol.** Total amount received by selling all pen by A

$= 231 \times 20 = \text{Rs } 4620$

Total amount received by selling all pencil by A

$= 165 \times 10 = \text{Rs } 1650$

Total amount earned by selling all pen &amp; pencil by A

$= 4620 + 1650 = \text{Rs } 6270$

**S167. Ans.(b)****Sol.** Total pens sold by A and B together =  $231 + 210 = 441$ Total pencil sold by B and C together =  $140 + 48 = 188$ 

Required ratio =  $\frac{441}{188} = 441:188$

**S168. Ans.(d)**

Required average =  $\frac{231+210+80}{3} = \frac{521}{3} = 173.67$

**S169. Ans.(a)**

number of pens sold by stationary B after increase of 20% =  $210 \times \frac{120}{100} = 252$

number of pencil sold by stationary C after increase of 25% =  $48 \times \frac{125}{100} = 60$

Required sum of pen and pencil =  $252 + 60 = 312$

**S170. Ans.(c)**

Total pens sold by A, B and C together =  $231 + 210 + 80 = 521$

Total pencils sold by A, B and C together =  $165 + 140 + 48 = 353$

Required difference =  $521 - 353 = 168$

**S171. Ans.(d)**

Sol. required answer =  $1000 \times \left( \frac{10}{100} \times \frac{3}{5} + \frac{15}{100} \times \frac{8}{15} \right) = 140$

**S172. Ans.(c)**

Sol. required ratio =  $\left( \frac{20}{100} \times 1000 \times \frac{1}{2} \right) + \left( \frac{25}{100} \times 1000 \times \frac{13}{25} \right) : \left( \frac{30}{100} \times 1000 \times \frac{13}{30} \right)$   
 $= 23 : 13$

**S173. Ans.(a)**

Sol. duffel bags produced by company B

$$= \frac{10}{100} \times 1000 \times \frac{3}{5} = 60$$

Backpacks produced by company D =  $\frac{25}{100} \times 1000 \times \frac{13}{25} = 130$

Required % =  $\frac{60}{130} \times 100 = 46 \frac{2}{13} \%$

**S174. Ans.(e)**

Sol. required average =  $\frac{\frac{15}{100} \times 1000 \times \frac{7}{15} + \frac{25}{100} \times 1000 \times \frac{13}{25}}{2} = \frac{200}{2} = 100$

**S175. Ans.(b)**

Sol. bags produced by company B & E together =  $\frac{10+30}{100} \times 1000 = 400$

Duffel bags produced by company A, D & E together

$$= \frac{20}{100} \times 1000 \times \frac{1}{2} + \frac{25}{100} \times 1000 \times \frac{12}{25} + \frac{30}{100} \times 1000 \times \frac{13}{30} = 350$$

Required % =  $\frac{400}{350} \times 100 = 114 \frac{2}{7} \%$

**Solutions (176-180):** Employees who consume only espresso =  $95 - (15 + 30 + 25) = 25$

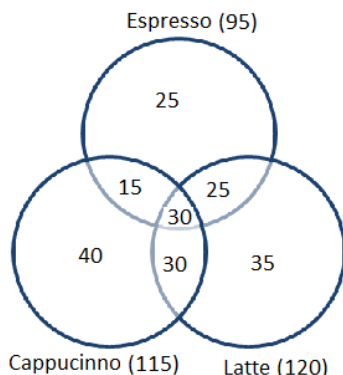
Employees who consume only cappuccino

$$= 100 - (25 + 35) = 40$$

Employees who consume latte & cappuccino both

$$= 200 - (25 + 15 + 40 + 25 + 30 + 35)$$

$$= 30$$

**S176. Ans.(c)**

Sol. employees who drink exactly 2 drinks

$$= 15 + 25 + 30 = 70$$

**S177. Ans.(d)**

Sol. Employees who consume cappuccino =  $40 + 30 + 30 + 15 = 115$

Employees who consume latte =  $30 + 30 + 25 + 35 = 120$

Required % =  $\frac{115}{120} \times 100 = 95.83\% \approx 96\%$

**S178. Ans.(a)**

Sol. required ratio =  $25 : 30 = 5 : 6$

**S179. Ans.(e)**

Sol. required number of employee =  $15 + 30 + 25 + 30 = 100$

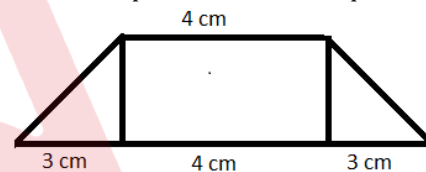
**S180. Ans.(b)**

Sol. required answer =  $\frac{25+35}{2} - \frac{30+30}{2} = 0$

**S181. Ans.(d)**

Sol. side of square =  $\sqrt{25} = 5 \text{ cm}$

Since non-parallel sides are equal,



Height of trapezium =  $\sqrt{5^2 - 3^2} = 4 \text{ cm}$

Area of trapezium =  $\frac{1}{2} (\text{base}_1 + \text{base}_2) \times \text{height}$

$$= \frac{1}{2} \times (4 + 10) \times 4 = 28 \text{ cm}^2$$

**S182. Ans.(c)**

Sol. let rate of interest be R% & principal be Rs. P

$$SI = 2P - P = Rs. P$$

$$P = \frac{P \times R \times 5}{100}$$

$$R = 20\%$$

To become 12 times,  $SI = 12P - P = Rs. 11P$

$$11P = \frac{P \times 20 \times T}{100} \text{ where } T \text{ is time period in years}$$

$$T = 55 \text{ years}$$

**S183. Ans.(b)**

Sol.

	Time (days)	Work (units)	Efficiency (units/day)
A + B	12		25
A	25	300	12
B			$25 - 12 = 13$

Half work done by A & half by B

$$\text{Required time} = \frac{150}{12} + \frac{150}{13} = \frac{625}{26} = 24 \frac{1}{26} \text{ days}$$

**S184. Ans.(b)****Sol.** let marks scored by Ravi = x

$$\text{Marks of Ronit} = \frac{90}{100}x = 0.9x$$

$$\text{Marks of Raj} = \frac{130}{100} \times 0.9x = 1.17x$$

$$\text{Marks of Jai} = \frac{120}{100} \times 1.17x = 1.404x$$

$$\text{Required \%} = \frac{1.404x}{x} \times 100 = 140.4\%$$

**S185. Ans.(e)****Sol.** in mixture I juice : water =  $\frac{120}{100} \times 100 : 100 = 6 : 5$ 

Mixtures are mixed in ratio 3 : 4

In final mixture,

$$\frac{\text{juice}}{\text{water}} = \frac{6 \times 3 + 5 \times 4}{5 \times 3 + 6 \times 4} = 38 : 39$$

**S186. Ans.(a)****Sol.** If x litres of water is added to the mixture, the ratio of milk and water will be 14:5

$$\frac{14}{5} = \frac{\frac{7}{8} \times 64}{\frac{1}{8} \times 64 + x}$$

$$\frac{14}{5} = \frac{56}{x+8}$$

$$14x + 112 = 280$$

$$14x = 168$$

$$x = 12 \text{ litres}$$

**S187. Ans.(c)****Sol.** Let son's present age = x years

Then, person's present age = (x+16) year

After 2 yrs, (x+16)+2=2(x+2)

$$x + 18 = 2x + 4$$

$$x = 14 \text{ years}$$

Hence, son's age after 8 years = 14+8 = 22 yrs

**S188. Ans.(a)****Sol.** Overall rate for 2 yrs at the rate of 10% compounded

$$\text{yearly} = 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

According to the question,

$$21\% = 672$$

$$100\% = \frac{672}{21} \times 100 = 3200 \text{ rs}$$

$$\text{Simple interest} = \frac{3200 \times 14 \times 4}{100}$$

$$= \text{Rs } 1792$$

**S189. Ans.(d)****Sol.** Required number of ways =  ${}^7P_4 = 7 \times 6 \times 5 = 210$  ways**S190. Ans.(b)****Sol.** Let 2 digit number be 10a + b = x

Now, reversing of the 2 digit number becomes 10b+a

According to the question,

$$10b+a = 10a+b+63$$

$$9b - 9a = 63$$

$$b - a = 7 \dots\dots (1)$$

$$a + b = 11 \dots\dots (\text{Given}) (2)$$

Solving equation (1) &amp; (2), we get a=2, b=9

$$\text{Original number} = 10a + b = 29$$

$$\text{Required number} = x + 15 = 44$$

**S191. Ans.(c)****Sol.** let the smallest odd number be 'a' so next odd number be 'a+2' and so on

$$8^{\text{th}} \text{ number} = a + (8 - 1) \times 2 = a + 14 \text{ (using AP, nth term)}$$

$$= a + (n-1)d$$

ATQ,

$$\frac{a+a+2+\dots+a+14}{8} = 10$$

$$8a + 56 = 80 \text{ (using sum of AP)}$$

$$a = \frac{80-56}{8} = 3$$

Since 'a' is smallest number, so smallest 4 numbers will be

$$= 3, 5, 7, 9$$

$$\text{Required average} = \frac{3+5+7+9}{4} = 6$$

**S192. Ans.(a)****Sol.** let CP of bags be Rs. 4x & Rs. 5x respectively.

$$\text{Total SP of bags} = \frac{110}{100} \times 4x + \frac{120}{100} \times 5x$$

$$= 4.4x + 6x = \text{Rs. } 10.4x$$

$$\text{Required Profit \%} = \frac{10.4x - 9x}{9x} \times 100 = 15\frac{5}{9}\%$$

**S193. Ans.(c)**

$$\text{Sol. required probability} = \frac{{}^{15}C_3 + {}^{10}C_3}{{}^{25}C_3} = \frac{455 + 120}{2300} = \frac{1}{4}$$

**S194. Ans.(b)****Sol.** since boys will always be more than girls and atleast a boy & a girl should be there which means group can be made as

$$(2 \text{ girls, } 3 \text{ boys}) = {}^5C_3 \times {}^4C_2 = 60$$

$$(1 \text{ girl, } 4 \text{ boys}) = {}^5C_4 \times {}^4C_1 = 20$$

$$\text{Total number of ways} = 60 + 20 = 80$$

**S195. Ans.(e)**

$$\text{Sol. actual journey time} = \frac{20}{5} = 4 \text{ hours}$$

$$\text{New journey time} = \frac{40}{100} \times 4 = 1.6 \text{ hour}$$

$$\text{New speed} = \frac{20}{1.6} = 12.5 \text{ kmph}$$

$$\text{Required \%} = \frac{12.5-5}{5} \times 100 = 150\%$$

**S196. Ans.(a)**

$$\text{Sol. } 33.989 \times \frac{4.01}{17.02} \times \frac{1}{3.99} - 2.012 = ?$$

$$34 \times \frac{4}{17} \times \frac{1}{4} - 2 \approx ?$$

$$? \approx 0$$

**S197. Ans.(d)**

$$\text{Sol. } (11.01 + 12.97) \times \frac{1}{7.99} + 5.956 = 18 - ?$$

$$(11 + 13) \times \frac{1}{8} + 6 \approx 18 - ?$$

$$? \approx 9$$

**S198. Ans.(b)**

$$\text{Sol. } 119.022 + 40.99 + 9.03 = ?^2$$

$$119 + 41 + 9 \approx ?^2$$

$$? \approx 13$$

**S199. Ans.(c)**

**Sol.**  $58.99 + 52.11 - 47.94 + ? = 85.96$

$59 + 52 - 48 + ? \approx 86$

$? \approx 86 - 63 \approx 23$

**S200. Ans.(e)**

**Sol.**  $(14.96)^2 + (5.011)^3 + 50.02 = ?^2$

$15^2 + 5^3 + 50 \approx ?^2$

$225 + 125 + 50 \approx ?^2$

$?^2 \approx 400$

$? \approx 20$

**S201. Ans.(a)**

**Sol.**  $2000 \div 50 \times 3 + 5 = (?)^3$

$? = 5$

**S202. Ans.(c)**

**Sol.**  $\frac{6}{10} \times 320 + \frac{1}{10} \times 1600 = -177 + (?)^2$

$(?)^2 = 529$

$? = 23$

**S203. Ans.(d)**

**Sol.**  $1.101 + 11.01 + \frac{101.01}{1.01} = ?$

$\Rightarrow ? = 1 + 11 + 101$

$? = 113$

**S204. Ans.(a)**

**Sol.**  $45 \times 3 - 35 = ? \times 10$

$? = \frac{100}{10}$

$? = 10$

**S205. Ans.(e)**

**Sol.**  $\frac{1391}{26} \times 2 + 256 = ?$

$? = 363$

**S206. Ans.(b)**

**Sol.**  $112.5 \times 5.95 + 7799 \div 26 + 124.8 = ?$

$? = 675 + 300 + 125$

$? = 1100$

**S207. Ans.(d)**

**Sol.**  $57.5 \times 13.98 + 8748 \div 13.98 - 21.97 \times 8 = ?$

$? = 805 + 625 - 176$

$? = 1254$

**S208. Ans.(a)**

**Sol.**  $(25.98)^2 + (33.97)^2 + \sqrt{1440} - \sqrt{3136} = ?$

$? = (26)^2 + (34)^2 + \sqrt{1444} - \sqrt{3136}$

$? = 676 + 1156 + 38 - 56$

$? = 1814$

**S209. Ans.(e)**

**Sol.**  $12449.5 + 7649.7 - 9874.8 + 8274.9 = ?$

$? = 12450 + 7650 - 9875 + 8275$

$? = 18500$

**S210. Ans.(b)**

**Sol.**  $(15.98)^3 + 9320 \div 7.99 - 7304.8 \div 4.99 = ?$

$? = (16)^3 + 9320 \div 8 - 7305 \div 5$

$? = 4096 + 1165 - 1461$

$? = 3800$

**S211. Ans.(b)****Sol.** Pattern is

$20 + (4 \times 1) = 24$

$24 + (4 \times 2) = 32$

$32 + (4 \times 3) = \mathbf{44}$

$44 + (4 \times 4) = 60$

$60 + (4 \times 5) = 80$

**S212. Ans.(c)****Sol.** Pattern is

$5^3 = 125$

$6^3 = 216$

$7^3 = 343$

$8^3 = 512$

$9^3 = 729$

$10^3 = \mathbf{1000}$

**S213. Ans.(e)****Sol.** Pattern is

$5^3 - 5^2 = 100$

$6^3 - 6^2 = 180$

$7^3 - 7^2 = 294$

$8^3 - 8^2 = 448$

$9^3 - 9^2 = 648$

$10^3 - 10^2 = \mathbf{900}$

**S214. Ans.(d)**

**Sol.**  $35 + 7 = 42$

$42 + 7 = \mathbf{49}$

$49 + 7 = 56$

$56 + 7 = 63$

$63 + 7 = 70$

**S215. Ans.(a)****Sol.** Pattern is

$2 \times 2 = 4$

$4 \times 3 = 12$

$12 \times 4 = 48$

$48 \times 5 = \mathbf{240}$

$240 \times 6 = 1440$

**S216. Ans.(a)**

**Sol.**  $1 + 1^2 = 2$

$2 + 2^2 = 6$

$6 + 3^2 = 15$

$\therefore 15 + 4^2 = 31$

**S217. Ans.(b)**

**Sol.**  $12 + 2 = 14$

$14 + 3 = 17$

$17 + 5 = 22$

$22 + 7 = 29$

$\therefore 29 + 11 = 40$  (addition of prime numbers)

**S218. Ans.(c)**

**Sol.**  $1 + 1^3 = 2$

$2 + 2^3 = 10$

$10 + 3^3 = 37$

$37 + 4^3 = 101$

$\therefore 101 + 5^3 = 226$

**S219. Ans.(b)**

**Sol.**  $10^2 + 1 = 101$

$11^2 + 2 = 123$

$12^2 + 3 = 147$

$13^2 + 4 = 173$

$\therefore 14^2 + 5 = 201$

**S220. Ans.(a)**

**Sol.**  $24 + 6 = 30$

$30 - 7 = 23$

$23 + 8 = 31$

$31 - 9 = 22$

$\therefore 22 + 10 = 32$

**S221. Ans.(d)**

**Sol.** Pattern is

$3 + (5 \times 1) = 8$

$8 + (5 \times 2) = 18$

$18 + (5 \times 3) = 33$

$33 + (5 \times 4) = 53$

$53 + (5 \times 5) = 78$

**S222. Ans.(a)**

**Sol.** Pattern is

$3^2 = 9$

$4^3 = 64$

$5^2 = 25$

$6^3 = 216$

$7^2 = 49$

$8^3 = 512$

**S223. Ans.(e)**

**Sol.** Pattern is

$12 \times 2 + 12 = 36$

$36 \times 2 + 8 = 80$

$80 \times 2 + 4 = 164$

$164 \times 2 + 0 = 328$

$328 \times 2 - 4 = 652$

**S224. Ans.(d)**

**Sol.**  $15 + 8 = 23$

$23 + 7 = 30$

$30 + 6 = 36$

$36 + 5 = 41$

$41 + 4 = 45$

**S225. Ans.(a)**

**Sol.** Pattern is

$7 \times 2 = 14$

$14 \times 2 = 28$

$28 \times 2 = 56$

$56 \times 2 = 112$

$112 \times 2 = 224$

**S226. Ans.(c)****Sol.** Total marks scored by lokesh in physics, chemistry and maths together

$= 150 \times \frac{80}{100} + 150 \times \frac{76}{100} + 150 \times \frac{84}{100}$

$= 120 + 114 + 126$

$= 360$

Total marks scored by Amit in physics, chemistry and maths together

$= 150 \times \frac{70}{100} + 150 \times \frac{66}{100} + 150 \times \frac{58}{100}$

$= 105 + 99 + 87$

$= 291$

Required difference =  $360 - 291 = 69$

**S227. Ans.(d)****Sol.** Total marks scored by Siddharth in all the subjects

$= 150 \times \frac{48}{100} + 150 \times \frac{72}{100} + 150 \times \frac{88}{100} + 100 \times \frac{70}{100} + 100 \times \frac{86}{100}$

$= 72 + 108 + 132 + 70 + 86$

$= 468$

overall percentage marks scored by Siddharth =  $\frac{468}{650} \times 100$

$= 72\%$

**S228. Ans.(a)****Sol.** Total marks scored by Ritesh in all the subjects

$= 150 \times \frac{76}{100} + 150 \times \frac{82}{100} + 150 \times \frac{64}{100} + 100 \times \frac{72}{100} + 100 \times \frac{94}{100}$

$= 114 + 123 + 96 + 72 + 94$

$= 499$

Total marks scored by Aakash in all the subjects

$= 150 \times \frac{50}{100} + 150 \times \frac{64}{100} + 150 \times \frac{78}{100} + 100 \times \frac{65}{100} + 100 \times \frac{75}{100}$

$= 75 + 96 + 117 + 65 + 75$

$= 428$

Required difference =  $499 - 428 = 71$

**S229. Ans.(c)****Sol.** marks scored in physics subject by all the given five students together =  $150 \times \frac{66}{100} + 150 \times \frac{64}{100} + 150 \times \frac{72}{100} + 150 \times$ 

$\frac{76}{100} + 150 \times \frac{82}{100}$

$= 99 + 96 + 108 + 114 + 123$

$= 540$

Average marks scored in physics =  $\frac{540}{5} = 108$

**S230. Ans.(b)**

**Sol.** Total marks scored by Aakash, Siddharth and Lokesh in

$$\text{English} = 100 \times \frac{65}{100} + 100 \times \frac{70}{100} + 100 \times \frac{75}{100}$$

$$= 65 + 70 + 75$$

$$= 210$$

Total marks scored by Amit, Aakash and Lokesh in

$$\text{maths} = 150 \times \frac{70}{100} + 150 \times \frac{50}{100} + 150 \times \frac{80}{100}$$

$$= 105 + 75 + 120$$

$$= 300$$

$$\text{Required percentage} = \frac{210}{300} \times 100$$

$$= 70\%$$

**S231. Ans.(b)**

**Sol.** Number of Honda city car sold in Ahmedabad = 320

Number of Innova car sold in Surat = 480

$$\text{Required percentage} = \frac{320}{480} \times 100 = 66\frac{2}{3}\%$$

**S232. Ans.(d)**

**Sol.** Total creta car sold in Delhi and Mohali together = 420 + 280 = 700

Total innova car sold in Kolkata and Ahmedabad together = 320 + 500 = 820

$$\text{Required ratio} = \frac{700}{820} = 35:41$$

**S233. Ans.(a)**

**Sol.** total number of cars sold in Kolkata = 320 + 360 + 460 = 1140

**S234. Ans.(e)**

**Sol.** Total number of Honda city cars sold in delhi = 540

Total number of creta cars sold in surat = 450

$$\text{Required difference} = 540 - 450 = 90$$

**S235. Ans.(c)**

**Sol.** Total number of Honda city car sold in all the cities together = 460 + 320 + 340 + 540 + 420 = 2080

$$\text{Average} = \frac{2080}{5} = 416$$

**S236. Ans.(a)**

**Sol.** no. of valid votes cast in village B

$$= 10000 \times \frac{25}{100} \times \frac{80}{100} \times \frac{90}{100} = 1800$$

**S237. Ans.(d)**

**Sol.** total valid votes cast in village C

$$= 10000 \times \frac{20}{100} \times \frac{90}{100} = 1800$$

Let winning candidate got  $x\%$  of votes cast and Losing Candidate got  $(x-12)\%$  of votes cast.

Now, ATQ

$$x + x - 12 = 100$$

$$x = 56\%$$

$$\text{Votes obtained by losing candidate} = \frac{44}{100} \times 1800 = 792$$

**S238. Ans.(e)**

**Sol.** average registered voters of B,C,D

$$= \frac{(25+20+15)}{100} \times \frac{10000}{3} = 2000$$

**S239. Ans.(c)**

**Sol.** votes cast -

$$A = 10000 \times \frac{20}{100} \times \frac{70}{100} = 1400$$

$$B = 10000 \times \frac{25}{100} \times \frac{65}{100} = 1625$$

$$D = 10000 \times \frac{15}{100} \times \frac{80}{100} = 1200$$

$$E = 10000 \times \frac{20}{100} \times \frac{75}{100} = 1500$$

Maximum voters cast their votes in village B.

**S240. Ans.(b)**

**Sol.** average number of registered voters from village A & C

$$= \frac{10000}{2} \times \frac{20+20}{100} = 2000$$

Average no. of registered voters from village B, D & E

$$= \frac{10000}{3} \times \frac{(25+15+20)}{100} = 2000$$

$$\text{Required \%} = \frac{2000}{2000} \times 100 = 100\%$$

**S241. Ans.(d)**

**Sol.** let side of squares be 'a' & 'b' units respectively.

$$a^2 = 289$$

$$b^2 = 169$$

$$\frac{a}{b} = \frac{17}{13}$$

$$\text{Required ratio} = \frac{\sqrt{2}a}{\sqrt{2}b} = 17 : 13$$

**S242. Ans.(b)**

**Sol.** let rate of interest be  $R\%$

$$SI = 15000 - 12000 = \text{Rs. } 3000$$

$$N3000 = \frac{12000 \times R \times 18}{12 \times 100}$$

$$R = \frac{100}{6} \%$$

$$\text{Required amount} = 5000 + \frac{5000 \times 100 \times 30}{100 \times 6 \times 12} = \text{Rs. } 7083.33$$

**S243. Ans.(b)**

**Sol.** Let efficiency of a man & a boy be  $M$  &  $B$  units/day respectively

$$5B \times 20 = 10M \times 8$$

$$\frac{M}{B} = \frac{5}{4}$$

$$\text{Total work} = (4 \times 5 + 4 \times 4) \times 3 = 108 \text{ units}$$

$$\text{Work done by 4 boys in 3 days} = 4 \times 4 \times 3 = 48 \text{ units}$$

Amount earned by boys for their contribution

$$= \frac{48}{108} \times 540 = \text{Rs. } 240$$

**S244. Ans.(d)**

**Sol.** let maximum marks be  $x$

$$\frac{56}{100}x - 10 = \frac{48}{100}x + 6$$

$$x = 200$$

$$\text{Marks of Sanjay} = \frac{56}{100}x = 112$$

$$\text{Passing marks} = 112 - 10 = 102$$

$$\text{Pass \%} = \frac{102}{200} \times 100 = 51\%$$



**S245. Ans.(c)**

**Sol.** Let present ages of Karan and Arjun be  $4x$  &  $3x$  years respectively

$$4x = 3x + 5$$

$$x = 5$$

Present age of Karan =  $4x = 20$  years

Present age of Arjun =  $3x = 15$  years

Present age of Mahesh =  $\frac{20}{2} \times 5 = 50$  years

Required ratio =  $(50 - 10) : (20 - 10) : (15 - 10) = 40 : 10 : 5 = 8 : 2 : 1$

**S246. Ans.(b)**

$$\text{Sol. } \frac{128}{2} + \frac{4}{2} \times 4 = ? + 10$$

$$64 + 8 = ? + 10$$

$$? = 62$$

**S247. Ans.(c)**

$$\text{Sol. } \frac{11}{11} + 9 + ? = 27$$

$$1 + 9 + ? = 27$$

$$? = 17$$

**S248. Ans.(b)**

$$\text{Sol. } (3)^2 \times (3)^6 \times ((3)^2)^2 \div (3^3)^2$$

$$\Rightarrow \frac{3^{2+6+4}}{3^6} \Rightarrow \frac{3^{12}}{3^6} = 3^6$$

**S249. Ans.(b)**

$$\text{Sol. } 123 + 447 - 170 + 500 = ? - 200$$

$$570 - 170 + 500 + 200 = ?$$

$$? = 1100$$

**S250. Ans.(b)**

$$\text{Sol. } 196 + 179 + 25 = (?)^2$$

$$(?)^2 = 400$$

$$? = 20$$

**S251. Ans.(c)**

Total number of student from engineering and architecture department together =  $5400 \times \frac{25}{100} + 5400 \times \frac{18}{100} = 1350 + 972$

$$= 2322$$

Total students from the pharmacy and BSc department

$$\text{together} = 5400 \times \frac{15}{100} + 5400 \times \frac{12}{100}$$

$$= 810 + 648 = 1458$$

$$\text{Required ratio} = \frac{2322}{1458} = 43:27$$

**S252. Ans.(d)**

**Sol.** total number of females in pharmacy and finearts together

$$= 5400 \times \frac{15}{100} \times \frac{2}{3} + 5400 \times \frac{10}{100} \times \frac{2}{5}$$

$$= 756$$

**S253. Ans.(a)**

**Sol.** central angle of the total students of architecture departments of the university

$$= 18 \times \frac{360}{100} = 64.8^\circ$$

**S254. Ans.(b)**

**Sol.** Total number of students from MBBS and Finearts department together =  $5400 \times \frac{20}{100} + 5400 \times \frac{10}{100} = 1080 + 540$

$$= 1620$$

Total failed student in the final semester exam from MBBS and Finearts dept

$$= 5400 \times \frac{20}{100} \times \frac{20}{100} + 5400 \times \frac{10}{100} \times \frac{15}{100}$$

$$= 297$$

total number of student who passed the semester from MBBS and Finearts dept

$$= 1620 - 297$$

$$= 1323$$

**S255. Ans.(e)**

**Sol.** Total students from engineering and pharmacy department together =

$$5400 \times \frac{25}{100} + 5400 \times \frac{15}{100}$$

$$= 1350 + 810$$

$$= 2160$$

total students from MBBS and Fine arts department together

$$= 5400 \times \frac{20}{100} + 5400 \times \frac{10}{100}$$

$$= 1080 + 540$$

$$= 1620$$

$$\text{Required percentage} = \frac{2160}{1620} \times 100$$

$$134 \% \text{ (approx.)}$$

**S256. Ans.(d)**

$$\text{Sol. } \frac{48}{100} \times 525 + \frac{?}{100} \times 250 = 499$$

$$? = \frac{247 \times 100}{250} = 98.8$$

**S257. Ans.(c)**

$$\text{Sol. } \frac{5}{2} \times \frac{7}{8} \times \frac{1}{28} \times 1600 = 260 + ? - 499$$

$$? = 499 + 125 - 260$$

$$= 364$$

**S258. Ans.(a)**

$$\text{Sol. } ? = \sqrt{5125 - 289 - 75}$$

$$= \sqrt{4761} = 69$$

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**S259. Ans.(b)**

$$\begin{aligned}\text{Sol. } (?)^2 &= 16 \times 7 + 361 + 11 \\ &= 484 \\ ? &= 22.\end{aligned}$$

**S260. Ans.(b)**

$$\begin{aligned}\text{Sol. } 252 + 26 + 420 &= 121 + ? \\ ? &= 577\end{aligned}$$

**S261. Ans.(e)**

$$\begin{aligned}\text{Sol. females in company A} &= \frac{50}{100} \times 500 = 250 \\ \text{Required \%} &= \frac{250}{750} \times 100 = 33\frac{1}{3}\%\end{aligned}$$

**S262. Ans.(c)**

$$\text{Sol. required average} = \frac{600+450+800}{3} = \frac{1850}{3} = 616.67$$

**S263. Ans.(b)**

$$\text{Sol. required difference} = \frac{500+750}{2} - \frac{600+450}{2} = 100$$

**S264. Ans.(d)**

$$\begin{aligned}\text{Sol. total female employees in D and E together} \\ &= \frac{7}{15} \times 450 + \frac{3}{10} \times 800 = 210 + 240 = 450\end{aligned}$$

**S265. Ans.(a)**

$$\begin{aligned}\text{Sol. Total employees in company F} \\ &= \frac{60}{100} \times 600 + \frac{70}{100} \times 450 = 360 + 315 = 675\end{aligned}$$

**S266. Ans.(d)**

$$\begin{aligned}\text{Sol. Let present age of Suresh's son be } x \text{ yrs} \\ \text{Present age of Suresh} &= 6x \\ \frac{6x+13}{x+13} &= \frac{11}{4} \\ 24x+52 &= 11x+143 \\ 13x &= 91 \\ x &= 7 \\ \text{Present age of suresh} &= 6x = 42 \text{ yrs}\end{aligned}$$

**S267. Ans.(b)**

$$\begin{aligned}\text{Sol. Let cost price of the item be } 100x \\ \text{Marked price of the item} &= 100x + 100x \times \frac{60}{100} \\ &= 160x \\ \text{Selling price of items after giving discounts} \\ &= 160x \times \frac{90}{100} \times \frac{85}{100} \\ &= 122.4x \\ \text{Profit percentage} &= \frac{122.4x - 100x}{100x} \times 100 \\ &= 22.4\%\end{aligned}$$

**S268. Ans.(a)**

$$\begin{aligned}\text{Sol. Relative speed} &= 90 - 60 = 30 \text{ km/hr} \\ \text{Distance travelled by Shatabdi exp. In 2 hrs} &= 60 \times 2 = 120 \text{ km} \\ \text{Time required to cover 120 km by duronto exp.} &= \frac{120}{30} = 4 \text{ hr} \\ \text{Distance travelled by duronto exp. In 4 hrs} &= 90 \times 4 = 360 \text{ km}\end{aligned}$$

**S269. Ans.(e)**

**Sol.** Let speed of stream be  $u$  km/hr

According to the question,

$$\begin{aligned}\frac{54}{15+u} + \frac{54}{15-u} &= 7.5 \\ \frac{18}{15+u} + \frac{18}{15-u} &= \frac{5}{2} \\ \frac{18(15-u+15+u)}{(15+u)(15-u)} &= \frac{5}{2}\end{aligned}$$

$$216 = 225 - u^2$$

$$u^2 = 9$$

$$u = 3 \text{ km/hr}$$

$$\text{Time required to travel 48 km in upstream} = \frac{48}{15-3} = \frac{48}{12} = 4 \text{ hrs}$$

**S270. Ans.(a)**

**Sol.** In basket, there are 8 red balls and 6 green balls

$$\begin{aligned}\text{Probability (both being either red or blue)} &= \frac{{}^8C_2 + {}^6C_2}{{}^{14}C_2} \\ &= \frac{28+15}{91} = \frac{43}{91}\end{aligned}$$

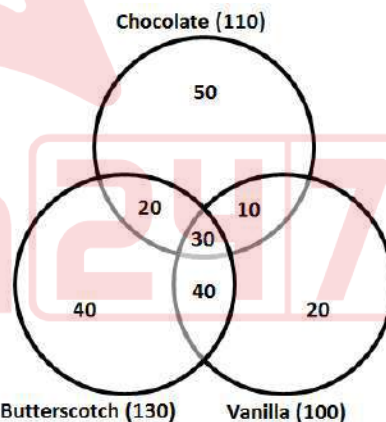
**Solutions (271-275):**

Person who eat only vanilla =  $100 - (40+10+30) = 20$

Person who eat butterscotch and chocolate only =  $130 - (40+40+30) = 20$

Person who eat only chocolate =  $210 - (40+40+30+10+20+20) = 50$

Person who eat chocolate =  $50+20+30+10 = 110$

**S271. Ans.(a)**

**Sol.** Number of people who eat only chocolate = 50

**S272. Ans.(a)**

**Sol.** A.T.Q

People eating chocolate and butterscotch only = 20

People eating only butterscotch = 40

$$\therefore \text{required percentage} = \frac{20}{40} \times 100 = 50\%$$

**S273. Ans.(d)**

**Sol.** people eating only vanilla = 20

People eating all 3 icecreams = 30

Required difference =  $30 - 20 = 10$

**S274. Ans.(c)****Sol.** people eating chocolate= 110

People eating vanilla= 100

$$\therefore \text{required percentage} = \frac{110}{100} \times 100 = 110\%$$

**S275. Ans.(b)****Sol.** people eating only chocolate and only butterscotch together= 50+40= 90

People eating only vanilla = 20

$$\therefore \text{required ratio} = 9:2$$

**Solutions (276-280):**

Let cost price of pen &amp; book be Rs x &amp; Rs y respectively.

$$\text{MP (pen)} = \frac{120}{100} \times x = \text{Rs } 1.2x$$

$$\text{SP (pen)} = \frac{108}{100} \times x = \text{Rs } 1.08x$$

$$\text{SP (book)} = \frac{112}{100} \times y = \text{Rs } 1.12y$$

$$\text{MP (book)} = \frac{100}{80} \times 1.12y = \text{Rs } 1.4y$$

$$x + y = 500 \dots\dots\dots (i)$$

$$(1.08x - x) + (1.12y - y) = \frac{10}{100} \times 1.4y = 0.14y$$

$$0.08x = 0.02y$$

$$x : y = 1 : 4 \dots\dots\dots (ii)$$

from (i) &amp; (ii)

$$x = \text{Rs } 100, \quad y = \text{Rs } 400$$

	Pen	Book
<b>CP (Rs)</b>	100	400
<b>MP (Rs)</b>	120	560
<b>SP (Rs)</b>	108	448

**S276. Ans.(e)****Sol.** cost price of book = Rs 400**S277. Ans.(b)****Sol.** required answer = 560 - 108 = Rs 452**S278. Ans.(c)****Sol.** required ratio = 108 : 448 = 27 : 112**S279. Ans.(a)**

$$\text{Sol. required average} = \frac{120+560}{2} = 340$$

**S280. Ans.(d)****Sol.** total CP = Rs 500

Total SP (actual) = 108 + 448 = Rs 556

$$\text{Actual gain \%} = \frac{556-500}{500} \times 100 = 11.2\%$$

Total SP (when no discount was offered) = 120 + 560 = Rs 680

$$\text{New gain \%} = \frac{680-500}{500} \times 100 = 36\%$$

$$\text{Required \%} = \frac{36-11.2}{11.2} \times 100 = 221.42\%$$

=220%(Approx.)

**S281. Ans.(c)****Sol.** No. of children not attending school from Q and R together

$$= \left(5800 \times \frac{24}{100} - \frac{28}{100} \times 3600\right) + \left(5800 \times \frac{11}{100} - 3600 \times \frac{14}{100}\right)$$

$$= 2030 - 1512 = 518$$

**S282. Ans.(e)**

$$\text{Sol. Required \%} = \frac{\frac{15}{100} \times 3600}{\frac{16}{100} \times 5800} \times 100 = 58.18 \approx 58\%$$

**S283. Ans.(a)**

$$\text{Sol. Required Average} = \frac{5800 \times (31+11+18) - 3600 \times \frac{(22+14+21)}{100}}{3}$$

$$= \frac{58 \times 60 - 36 \times 57}{3} = \frac{1428}{3} = 476$$

**S284. Ans.(d)**

$$\text{Sol. Required \%} = \frac{5800 \times \frac{(18+31)}{100} - 3600 \times \frac{(21+22)}{100}}{5800 \times \frac{(18+31)}{100}} \times 100$$

$$= \frac{(58 \times 49 - 36 \times 43)}{58 \times 49} \times 100 = \frac{(2842 - 1548)}{2842} \times 100$$

$$= \frac{1294}{2842} \times 100$$

$$= 45.53 \approx 46\%$$

**S285. Ans.(c)**

$$\text{Sol. Required Ratio} = \frac{18 \times 58}{36 \times 21}$$

$$= 29 : 21$$

**S286. Ans.(d)**

$$\text{Sol. } \frac{40}{100}y - \frac{20}{100}x = 270$$

$$\Rightarrow 2y - x = 1350 \dots(i)$$

$$\text{and } \frac{40}{100}x - \frac{20}{100}y = 0$$

$$2x - y = 0 \dots(ii)$$

On solving (i) &amp; (ii)

$$x = 450$$

$$y = 900$$

Required sum = 1350

**S287. Ans.(d)****Sol.** Let C.P. of A = x

Marked price of article = 1.2x

ATQ,

$$1.2x \times 0.9 - 1.2x \times 0.8 = 4.8$$

$$1.2x \times 0.1 = 4.8$$

$$x = 40$$

**S288. Ans.(e)****Sol.** ∵ a, b, c and d are four consecutive numbers and a + c = 120

$$\therefore a + a + 4 = 120$$

$$\Rightarrow 2a = 116 \Rightarrow a = 58$$

$$\therefore b = 60 \text{ and } d = 64$$

$$\therefore b \times d = 60 \times 64 = 3840$$

**S289. Ans.(d)****Sol.** Let the numbers be a, b, and c respectively.

$$\therefore \frac{a+c}{2} - \frac{b+c}{2} = 24$$

$$\Rightarrow (a+c) - (b+c) = 24 \times 2 = 48$$

$$\Rightarrow a - b = 48$$

**S290. Ans.(b)****Sol.** Price increased by 25% or  $\frac{1}{4}$ 

Initial	:	Final
Price	4	5
Quantity	5	4

↘  
1 unit

$$\therefore 1 \text{ unit} = 8 \text{ litres}$$

$$4 \text{ unit} = 8 \times 4 = 32 \text{ litres}$$

$$\therefore \text{final rate of milk} = \frac{160}{32}$$

$$= \text{Rs } 5 \text{ per litres}$$

Alternate,

Let Initial Price of milk = 'x'

And initial quantity = 'y'

ATQ,

$$x \times y = 160 = 1.25x \times (y - 8)$$

$$\Rightarrow y = 1.25y - 10$$

$$\Rightarrow y = 40$$

$$\text{Final Price of milk} = \frac{160}{32} \text{ or } 1.25 \times \frac{160}{40} = 5$$

**S291. Ans.(b)****Sol.** Let 200 promised to P & 300 to Q

After they went back from promise

P got

$$= 200 - 200 \times \frac{25}{100} + 300 \times \frac{30}{100}$$

$$= 240 \text{ votes}$$

$$Q \text{ got} = 300 - 300 \times \frac{30}{100} + 50$$

$$= 260 \text{ votes}$$

Q wins by 20 unit which is equal to 400 votes

$$\therefore 1 \text{ unit} = \frac{400}{20} = 20$$

$$\text{And total votes} = 20 \times 500$$

$$= 10000 \text{ votes}$$

**S292. Ans.(d)****Sol.** Let original price be Rs 100

$$\therefore \text{Rahul paid} = \text{Rs } 90$$

$$\text{S.P.} = 90 \times \frac{120}{100} = 108$$

$$\therefore \text{Profit percent he earned on original price}$$

$$= \frac{108 - 100}{100} \times 100 = 8\%$$

**S293. Ans.(a)****Sol.** Let age of Bhagat be 'b' year and Rahu be 'a' year

ATQ,

$$b \times a = 240 \quad \dots(i)$$

$$2a = b + 4 \quad \dots(ii)$$

From (i) &amp; (ii)

$$(2a - 4) \times a = 240$$

$$a = 12 \text{ year}$$

**S294. Ans.(b)****Sol.** Let amount of mixture removed = 'x'

And, Milk = 3litre, Water = 1litre

ATQ,

$$\frac{1}{1} = \frac{3 - \frac{3x}{4}}{1 - \frac{x}{4} + x}$$

$$\Rightarrow 1 + \frac{3x}{4} = 3 - \frac{3x}{4}$$

$$\Rightarrow 2 = \frac{6x}{4}$$

$$\Rightarrow x = \frac{4}{3}$$

$$\text{Required percentage} = \frac{\frac{4}{3}}{4} \times 100 = 33.33\%$$

**S295. Ans.(e)****Sol.** Let x = Amount invested by 'A'

y = amount invested by 'B'

Ratio of profit

$$A : B : C$$

$$x \times 12 : y \times 9 : 12,000 \times 3$$

$$4x : 3y : 12,000$$

$$= 48 : 48 : 24$$

$$= 2 : 2 : 1$$

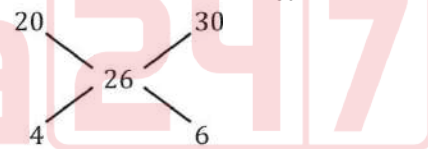
$$\Rightarrow \frac{4x}{12,000} = \frac{2}{1} \Rightarrow x = 6,000$$

$$\text{and } \frac{3y}{12,000} = \frac{2}{1} \Rightarrow y = 8,000$$

$$\text{Required sum} = 6,000 + 8,000 = 14,000$$

**S296. Ans.(b)**

$$\text{Sol. S.P. of mixture} = \frac{39}{150} \times 100 = 26$$



$$26 : 39$$

$$x = 39 \text{ kg}$$

**S297. Ans.(e)****Sol.** Let two-digit number =  $10x + y$ 

According to question

$$x + y = 12 \quad \dots(i)$$

$$\text{and } |x - y| = 6 \Rightarrow x - y = \pm 6 \quad \dots(ii)$$

By solving equation (i) and (ii)

$$x = 9 \text{ or } x = 3$$

$$y = 3 \text{ or } y = 9$$

$$\therefore \text{Required two-digit number}$$

$$= 10x + y = 10 \times 9 + 3 \text{ Or } 10x + y = 10 \times 3 + 9$$

$$= 90 + 3 = 93 \text{ or } 30 + 9 = 39$$

93 &amp; 39 both can be the answers

So, Either (a) or (c)

**S298. Ans.(b)**

**Sol.**

	CP	:	SP
<b>A</b>	1	:	2
<b>B</b>	5	:	6

S.P. is same

∴ Multiply C.P. and S.P. ratio of article A by '3'

	CP	:	SP
<b>A</b>	3	:	6
<b>B</b>	5	:	6

Total 8 : 12

$$\text{Required \%} = \frac{12-8}{8} \times 100$$

$$= \frac{4}{8} \times 100$$

$$= 50\%$$

**S299. Ans.(d)**

**Sol.** Sum of present age of couple =  $2 \times 29 = 58$

Age of family after 8 years

$$= 58 + 8 \times 2 + (8 - 2) + (8 - 4)$$

$$= 58 + 16 + 6 + 4$$

$$= 84$$

$$\text{Required average} = \frac{84}{4} = 21$$

**S300. Ans.(e)**

**Sol.** Let present age of Bhagat & Abhi be  $9x$  and  $8x$  respectively

After 10 years.

$$\frac{9x+10}{8x+10} = \frac{10}{9}$$

$$81x + 90 = 80x + 100$$

$$x = 10$$

∴ required difference = 10 years

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## IBPS RRB Vacancy Trend

Posts	2018	2019	2020	2021	2022	2023
RRB Clerk	5249	3688	5076	7001	4483	5538
RRB PO	3312	3381	4201	4846	2676	2485
Agriculture Officer	72	106	100	26	12	60
Marketing Officer	38	45	8	42	6	3
Treasury Manager	17	11	3	10	10	8
Law Officer	32	19	26	28	18	24
CA	21	24	26	33	19	21
IT	81	76	59	60	57	68
General Banking Officer	1208	893	838	940	745	332
Scale III Officer	160	157	156	215	80	73
<b>Total</b>	<b>10190</b>	<b>8400</b>	<b>10493</b>	<b>13201</b>	<b>8106</b>	<b>8612</b>

## IBPS RRB PO Prelims Cut Off Trend

In the following table, IBPS RRB PO prelims cut off trend of last 5 years is given.

States	2022	2021	2020	2019	2018
Andhra Pradesh	53.5	52.5	52.75	58.5	52.5
Assam	49.5	45.75	41	41.5	-
Bihar	56.75	56.25	48	58	45
Chhattisgarh	54	48.5	43.25	55.5	53.5
Gujarat	55.75	57.25	59.75	43.5	48.25
Haryana	61.75	59.5	60.5	64.5	57
Himachal Pradesh	59.75	57.5	56.5	59.75	59.75
Jammu & Kashmir	51.25	47	52	55.25	47.25
Jharkhand	59.25	55	54.25	59.5	-
Karnataka	36	44.75	-	46.25	44.25
Kerala	58.25	57.75	-	61	-
Maharashtra	51.75	53.75	47.25	54.7	47.5
Manipur	51.75	-	-	56	-
MP	55.25	54.25	44.25	54.7	-
Meghalaya	48.25	-	-	-	-

States	2022	2021	2020	2019	2018
Odisha	-	58.5	62.75	55.75	50.5
Punjab	60.5	60.25	59	63.5	54.75
Rajasthan	60.25	60.75	66	58.5	50.5
Tamil Nadu	-	50.5	54	55.25	43.25
Telangana	46.75	51	48.25	54	45.25
Tripura	51	48	-	37.5	29.25
Uttar Pradesh	62.5	54.5	47	58.75	50
Uttarakhand	62.5	60.75	61	65	54
West Bengal	58.25	56.5	52	55.25	48.5

### **IBPS RRB Clerk Prelims Cut Off Trend**

In the following table, IBPS RRB Clerk prelims cut off trend of last 5 years is given.

States	2022	2021	2020	2019	2018
Andhra Pradesh	71	69.25	76.25	71.5	72.5
Assam	64.25	71	69	64.75	-
Bihar	70	73	75.5	74.25	70.25
Chhattisgarh	67.25	71	70.5	75.5	67.75
Gujarat	72.75	76.75	78.25	63.25	69.75
Haryana	75.5	75.75		76	76.25
Himachal Pradesh	72.25	74.25	71.25	71	77.5
Jammu & Kashmir	64.5	72	73.5	-	70
Jharkhand	72.25	76.25	-	58.5	69.75
Karnataka	67.25	70.75	NA	65.25	66.25
Kerala	76	77	NA	75	73.5
Maharashtra	67	73.75	67	69.25	69.75
MP	70.25	72.75	66.75	68.25	70.5
Odisha	77	78.5	79.75	73.75	71.25
Punjab	74.25	76.5	78.5	77.5	74.75
Rajasthan	75	76.75	78.75	75.25	73
Tamil Nadu	61.25	70.5	NA	68	61.75
Telangana	61.5	69	71.25	68.5	67.75
Tripura	67	61.5	NA	71.25	48.75
Uttar Pradesh	76.5	76.5	73	74	70.75
Uttarakhand	75.5	77.5	NA	76.75	-
West Bengal	74.75	75.75	77.75	74.75	75.25



## IBPS RRB PO Prelims Subject Wise Trend Analysis

### Trend of Reasoning Ability

Topics	2022	2021	2020	2019	2018
Puzzle and Seating Arrangement	20	22	25	23	27
Direction Sense	3	4	3	0	3
Number Based Series	0	0	1	0	1
Alphabet Based Series	3	0	2	2	1
Inequality	4	5	3	5	0
Coding-Decoding	0	0	5	5	0
Miscellaneous questions (Number Based, Word Pairing, Meaningful Word)	3	3	1	0	0
Blood Relation	4	3	0	5	3
Syllogism	3	3	0	0	5
<b>Total</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

### Trend of Quantitative Aptitude

Topics	2022	2021	2020	2019	2018
Data Interpretation	10	17	10	12	15
Caselet DI	3	0	0	0	0
Approximation	5	5	0	0	0
Quadratic Equation	5	0	5	6	5
Missing/Wrong Number Series	5	6	5	6	5
Quantity 1 and Quantity 2	0	0	5	0	0
Arithmetic Word Problems	12	12	15	11	15
Data Sufficiency	0	0	0	5	0
<b>Total</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

## IBPS RRB Clerk Prelims Subject Wise Trend Analysis

### Trend of Reasoning Ability


Topics	2022	2021	2020	2019	2018
Puzzle and Seating Arrangement	15	15	20	20	16
Direction Sense	0	3	2	0	5
Alphabet Based Series	5	0	5	5	0
Inequality	5	0	0	5	5
Coding-Decoding	0	5	0	0	5
Miscellaneous questions (Word Pairing, Meaningful Word)	2	2	3	0	4
Blood Relation	3	0	0	3	0
Syllogism	5	5	4	5	0

Alphanumeric Series	5	5	4	2	5
Order & Ranking	0	5	2	0	0
<b>Total</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

### Trend of Quantitative Aptitude

Topics	2022	2021	2020	2019	2018
Data Interpretation	10	10	10	13	10
Simplification	14	15	10	10	15
Quadratic Equation	0	5	0	5	5
Missing/Wrong Number Series	6	0	5	5	5
Arithmetic Word Problems	10	10	15	7	5
<b>Total</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>

TEST SERIES  
BILINGUAL  
VIDEO SOLUTIONS



**IBPS 2023  
RRB CLERK  
PRELIMS + MAINS**

**190+ TOTAL TESTS**

TEST SERIES  
BILINGUAL  
VIDEO SOLUTIONS



**IBPS 2023  
RRB PO  
PRELIMS + MAINS**

**210+ TOTAL TESTS**

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