

IDBI JAM Memory Based Paper 15.12.2024

Directions (1-5): Read the given information carefully and answer the related questions:

Ten persons are designated on different posts in a company. The designations are – MD (Managing Director), CEO (Chief Executive Officer), CTO (Chief Technical Officer), CFO (Chief Financial Officer), VP (Vice President), GM (General Manager), AGM (Assistant General Manager), DGM (Deputy General Manager), Manager, TL (Team Lead). The designations are given in decreasing order of seniority from MD to TL respectively.

K is senior to GM. Three persons are designated between K and M. P is immediate senior to K. The number of persons senior to P is two less than the number of persons junior to O. Four designations are in between L and N. Q is either immediate senior to immediate junior to L. R is not AGM. S is senior to R but junior to T.

Q1. What is the designation of T?

- (a) CEO
- (b) CTO
- (c) CFO
- (d) MD
- (e) VP

Q2. How many persons are junior to S?

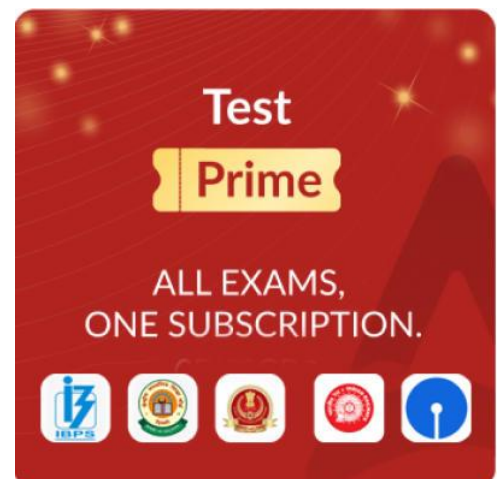
- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) More than five

Q3. Who is designated two designations junior to Q?

- (a) M
- (b) P
- (c) R
- (d) S
- (e) O


Q4. Which of the following statement is correct?

- I. L is senior to VP
 - II. Four designations are in between T and N
 - III. O is not DGM
- (a) Only III
 - (b) Only II
 - (c) Only I
 - (d) Only I and III
 - (e) Only II and III



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Q5. Four of the following five are similar in a certain manner and related to a group, which among the following is not related to the group?

- (a) P-T
- (b) K-L
- (c) Q-S
- (d) M-O
- (e) N-R

Directions (6-10): Read the given information carefully and answer the related questions:

Eight persons sit around a circular table in such a way that four persons sit at four corners and rest sit at the middle of each side of the table. The persons at corners face inside and rest face outside. Each person likes different fruits.

Three persons sit between A and the one who likes mango. The one who likes grape sits immediate right of A. B and the one who likes grape do not face in same direction. The one who likes papaya sits three persons to the left of B. The number of persons sit between A and B is one less than the number of persons sit between B and C (when counted from the left of both B and C). D likes orange and sits opposite to C. E sits third to the left of D. The one who likes pear sits second to the right of F. The one who likes kiwi sits immediate left of G. Two persons sit between H and the one who likes apple. One of the persons like cherry.

Q6. Who among the following sits opposite to the one who likes cherry?

- (a) The one who likes grape
- (b) B
- (c) D
- (d) The one who likes apple
- (e) C

Q7. What is the position of H with respect to the one who likes kiwi?

- (a) Third to the right
- (b) Immediate left
- (c) Second to the right
- (d) Fourth to the left
- (e) Immediate right

Q8. A like __ and sits second to the left of __.

- (a) Cherry, G
- (b) Kiwi, B
- (c) Apple, E
- (d) Cherry, E
- (e) Apple, B

Q9. Which of the following pair is incorrect?

- (a) B-Kiwi
- (b) C - Papaya
- (c) E - Pear
- (d) A - Cherry
- (e) G - Grape

Q10. Which of the following statement is correct?

- (a) C sits at the corner
- (b) D faces inside
- (c) One person sits between D and H
- (d) G likes papaya
- (e) F sits immediate right of D

Directions (11-15): Read the given information carefully and answer the related questions:

Eight persons purchase different items one after another. Three persons purchase the item between K and P. Tomato is purchased two persons after K. Number of persons purchase the item before P is same as the number of persons purchase the item between Q and the one who purchase tomato. Potato is purchased four persons before L. One item is purchased between L and M. Carrot is purchased two persons before N but immediate after banana. Lemon is purchased before carrot but after pumpkin. More than four items are purchased between O and apricot. Raspberry is purchased after R.

Q11. R likes which of the following item?

- (a) Potato
- (b) Lemon
- (c) Tomato
- (d) Pumpkin
- (e) Apricot

Q12. Who among the following purchased __ two persons after O?

- (a) P, Pumpkin
- (b) K, Carrot
- (c) L, Raspberry
- (d) M, Banana
- (e) None

Q13. Which of the following statement is true?

- I. M purchases the item before P
- II. No one purchases the item after N
- III. N purchases tomato

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

Q14. How many items are purchased before raspberry?

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

Q15. Who among the following purchased potato?

- (a) P
- (b) O
- (c) R
- (d) M
- (e) K

Q16. Statement: Social media has become a major source of news, offering quick access to information. However, it also spreads misinformation, as many users share news without verification. Platforms have introduced fact-checking, but critics argue this may limit free speech.

Which of the following is an inference of the given statement?

- (a) Social media has completely replaced traditional news sources.
- (b) People should verify information before sharing it online.
- (c) Fact-checking has eliminated misinformation from social media.
- (d) Social media platforms spread false news for profit.
- (e) Governments should ban social media to stop misinformation.

Q17. Statement: India has established a 'frozen zoo' at Darjeeling Zoo, West Bengal, to store the DNA of endangered species like red pandas and snow leopards. This initiative aims to produce healthy offspring and prevent these species from going extinct. The project focuses on the eastern Himalayan region, a biodiversity hotspot home to over 300 mammal species.

Which of the following conclusion is correct?

- I. The 'frozen zoo' will help in conserving endangered species.
- II. Darjeeling Zoo houses over 300 mammal species.
- III. The eastern Himalayan region is rich in biodiversity.

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

Q18. Statement: The 2025 Special Olympics World Winter Games were held in Turin, Italy, from March 8 to 15. Over 3,000 athletes participated, competing in eight different sports. The event aimed to showcase talent and promote inclusivity for athletes with intellectual disabilities.

Which of the following assumptions is/are implicit in the statement?

- I. International sporting events require logistical planning and coordination among multiple organizations.
- II. Spectators from different parts of the world attended the event to support the athletes.
- III. Such global competitions help in breaking stereotypes and changing perceptions about athletes with disabilities.

- (a) Only I is implicit
- (b) Only III is implicit
- (c) Only II and III are implicit
- (d) Only I and II are implicit
- (e) All are implicit

Q19. How many pairs of letters are in the word 'FOUNDATION', each of which have as many letters between them (both forward and backward direction) as they have according to English alphabetical order?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) More than five

Q20. In the number '352697452', if odd digits are decreased by 3 and even digits are increased by 2, then find the sum of non-repeating digits in the new number formed.

- (a) 10
- (b) 12
- (c) 8
- (d) 11
- (e) None of the above

Directions (21-25): Read the given information carefully and answer the related questions:

Eight persons were born on same date and same month of different years – 1963, 1968, 1972, 1975, 1984, 1991, 1996, 2007. Their ages are calculated as per base year 2024. They also like different colors. Age of H is a multiple of 4. Three persons were born between H and the one who likes red. G is 12 years older than F. The one who likes yellow is three persons older to G. E is 9 years younger than the one who likes pink. D is immediate older to the one who likes grey. C is younger to the one who likes green and older to the one who likes white. Two persons were born between B and the one who likes white. A and B do not like black. A is older to the one who likes blue.

Q21. What is the sum of the ages of A, B and C?

- (a) 122 years
- (b) 133 years
- (c) 98 years
- (d) 127 years
- (e) None of these

Q22. The one who likes blue was born in which of the following year?

- (a) 2007
- (b) 1996
- (c) 1991
- (d) 1984
- (e) 1975

Q23. How many persons are younger than the one who likes black?

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

Q24. Who among the following likes grey?

- (a) B
- (b) F
- (c) G
- (d) C
- (e) E

Q25. The one who was born in 1972, likes which of the following color?

- (a) White
- (b) Pink
- (c) Grey
- (d) Green
- (e) Blue

Directions (26-30): Read the given information carefully and answer the related questions:

Twelve persons join a coaching course in different months of a year from January to December. K joins the coaching in the month having even number of days. Five persons join the coaching between K and L. Number of persons join before L is same as the number of persons join after M. N joins four months before M. The months in which N and O join the coaching, have same number of days. P joins the coaching immediately before O. Number of persons join the coaching between P and M is same as the number of persons join the coaching between Q and N. R joins the coaching just before S. Two persons join coaching between T and U who joins the coaching after V.

Q26. Who among the following person joins the coaching in April?

- (a) V
- (b) U
- (c) T
- (d) O
- (e) N

Q27. R joins the coaching in which of the following month?

- (a) August
- (b) July
- (c) September
- (d) October
- (e) March

Q28. Four of the following five are similar in a certain manner and related to a group, who among the following is dissimilar to others?

- (a) K
- (b) M
- (c) Q
- (d) L
- (e) S

Q29. Which of the following is/are correct?

- I. L and T joins the coaching in adjacent months
- II. No one joins the coaching after O
- III. Q doesn't join the coaching in July

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

Q30. Number of persons joins the coaching before __ and after __ are same.

- (a) U, S
- (b) K, O
- (c) N, M
- (d) V, R
- (e) T, P

Q31. If it is possible to make meaningful word with the 2nd, 4th, 7th and 8th letters from left end of the word 'PERSUADE', then which would be the second letter from the right end of that meaningful word formed? If more than one such meaningful word can be formed, give Z as the answer. If no such meaningful word can be formed, give X as the answer.

- (a) Z
- (b) E
- (c) D
- (d) S
- (e) X

Directions (32-34): The question consists of two statements numbered I and II given below it. You have to decide whether the data provided in the statement is sufficient to answer the question.

- (a) Data given in both statements I and II together are sufficient to answer.
- (b) Data given in statement I alone is sufficient to answer.
- (c) Data given in statement II alone is sufficient to answer.
- (d) Data given in both statements I and II together are not sufficient to answer.
- (e) Data given in either statement I or statement II alone is sufficient to answer the question.

Q32. Eight persons—M, N, L, O, P, Q, R, and S—are sitting around a circular table facing the center. Who sits to the immediate right of P?

Statement I: M sits second to the right of S, and O sits opposite M. Two persons sit between M and L.

Statement II: R sits third to the left of M and Q sits opposite S. Q sits third to the right of P.

Q33. Seven persons – H, J, K, L, V, W, and U – live on seven different floors of a building, but not necessarily in the same order. The lowermost floor is numbered as 1, the floor immediately above it is numbered as 2, and so on up to the 7th floor. Who among the following persons lives on the second floor?

Statement I. J lives on an odd-numbered floor but not on the topmost floor. Only two persons live between J and K. V lives above K.

Statement II. L lives on an odd-numbered floor below the fourth floor. U lives immediately above L. Three floors between U and W.

Q34. Seven boxes – V, B, C, D, M, E, and F – are stacked vertically from bottom to top. Which box is at the fourth position from the bottom?

Statement I. Box B is immediately above Box C, and Box D is at the topmost position. Three boxes placed between box D and box C.

Statement II. Box V is placed immediately below Box E and immediately above box M. Box C is placed above Box A but not adjacent to it.

Directions (35-37): 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 definitely follow from the given statements,

Q35. Statements: Only a few power are white.

Some white is solve.

Only solve is brave.

Conclusions:

(a) Some power is solve

(b) No white is brave

(c) Some power is brave

(d) All power being brave is a possibility

(e) None of these

Q36. Statements: All plough are water

No water is ear

Some ear is pure

All pure are save

Conclusions:

(a) Some plough is ear

(b) All pure is water

(c) Some plough is not ear

(d) All save are plough

(e) None of these

Q37. Statements: Only a few clear is ignore.

No ignore is late.

Only a few late are better.

Some better is champion.

Conclusions:

(a) Some clear is late

(b) All ignore are champion

(c) Some better is not ignore

(d) No clear is champion

(e) All clear being late is a possibility

Directions (38-40): Study the following information carefully and answer the question given below:

Nine members A, B, C, D, E, F, G and H are there in a family. A is the father of B, who is the sister of C. D is the brother of A. B is unmarried. D is married to E. F is the only son of C. I is the mother of C. H is the sister-in-law of B. G is the daughter of E.

Q38. How many female members are there in the family?

(a) Four

(b) Six

(c) Three

(d) Five

(e) Two

Q39. Four of the following five are alike in a certain way and thus form a group. Find the one who doesn't belong to the group?

(a) D

(b) H

(c) A

(d) C

(e) F

Q40. How A is related to H?

(a) Son-in-law

(b) Father

(c) Father-in-law

(d) Uncle

(e) None of these

Directions (41-45): Study the following information carefully and answer the questions given below. A word number arrangement machine, when given a particular input, rearranges it following a particular rule. The example of input and its rearrangement is given below:

Input: 42 apple 76 not 31 for tree 85 box 62

Step I: apple 42 76 not 31 for tree box 62 85

Step II: box apple 42 not 31 for tree 62 85 76

Step III: for box apple 42 not 31 tree 85 76 62

Step IV: not for box apple 31 tree 85 76 62 42

Step V: tree not for box apple 85 76 62 42 31

Step V is the last step of the given example. Illustrate the above input arrangement and obtain the steps for the asked input given below:

Input: play 25 moon 40 chair 15 lamp 90 help 60

Q41. Which of the following is fourth from the left end of step II from the above arrangement?

- (a) 25
- (b) moon
- (c) 40
- (d) 15
- (e) play

Q42. Which of the following is the third step for the given input?

- (a) play moon lamp help chair 90 60 40 25 15
- (b) lamp chair help play 25 moon 15 90 60 40
- (c) lamp help chair play 25 moon 15 90 60 40
- (d) chair play 25 moon 40 15 lamp help 60 90
- (e) None of these

Q43. What is the position of 15 from the left end in step IV?

- (a) Second
- (b) Third
- (c) Fourth
- (d) Fifth
- (e) Sixth

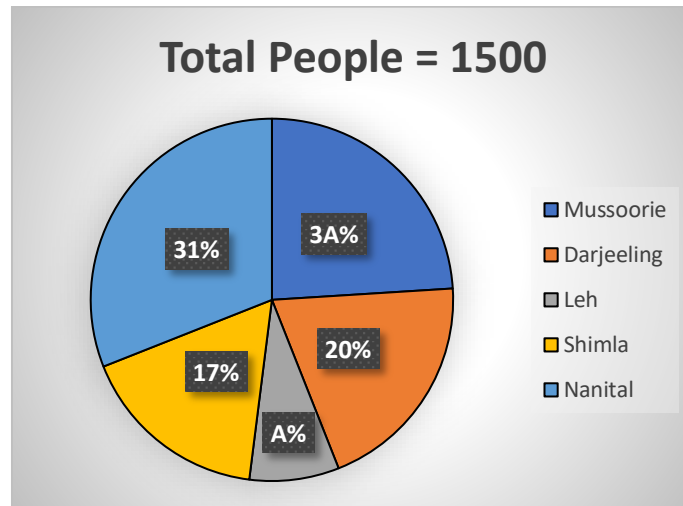
Q44. "play moon lamp help chair 90 60 40 25 15" represent which step of the given input?

- (a) Step IV
- (b) Step II
- (c) Step III
- (d) Step V
- (e) None of these

Q45. Which of the following is third from the right end in step I?

- (a) help
- (b) lamp
- (c) 90
- (d) 25
- (e) 15

Directions (46-50): Read the following pie chart carefully and answer the questions given below. The pie chart shows percentage distribution of total number people who visit five destinations on Monday. Darjeeling



Q46. Find the difference between the total people who visit Leh and that of Shimla.

- (a) 125
- (b) 135
- (c) 115
- (d) 140
- (e) 120

Q47. If the total number of people who visit Nainital on Tuesday is 60% of that on Monday, then find the number of people who visit Mussoorie on Monday is how many more or less than the number of people who visit Nainital on Tuesday.

- (a) 50
- (b) 75
- (c) 85
- (d) 90
- (e) 81

Q48. The total number of people visit Auli is $(A+12)\%$ more than that of Darjeeling. The total number of people who visit Mussoorie is what percentage of the total number of people who visit Auli?

- (a) 100%
- (b) 75%
- (c) 66.67%
- (d) 125%
- (e) 90%

Q49. The total number of males and females who visit Shimla is in the ratio of 11:6, respectively. If the number of males who visit Mussoorie is 5A more than the number of males who visit Shimla, then find the total number of females who visit Mussoorie and Shimla together.

- (a) 235
- (b) 230
- (c) 245
- (d) 240
- (e) 225

Q50. The total number of people who visit Leh and Nainital together is what percentage more or less than the total number of people who visit Darjeeling?

- (a) 83.33%
- (b) 90%
- (c) 95%
- (d) 91.25%
- (e) 87.5%

Directions (51-55): Read the following table carefully and answer the questions given below. The table shows the number of people (males and females) in a factory for making jackets in six different months.

Months	Per day (Males + Females)	Total males
June	40	800
July	55	960
August	85	1235
September	65	1500
October	70	1250
November	60	800

Q51. Find the ratio of the total females in November and the total people in July.

- (a) 200 : 313
- (b) 201 : 320
- (c) 199 : 320
- (d) 198 : 323
- (e) 200 : 341

Q52. Total females in October are what percentage more or less than the total people in June?

- (a) 37.5%
- (b) 32.5%
- (c) 27.5%
- (d) 23.33%
- (e) 33.33%

Q53. If the wage of each male and each female is Rs $X+5$ and Rs 125 respectively in September and the total wages paid by the factory in September is Rs 281250, then find X.

- (a) 145
- (b) 150
- (c) 140
- (d) 120
- (e) 125

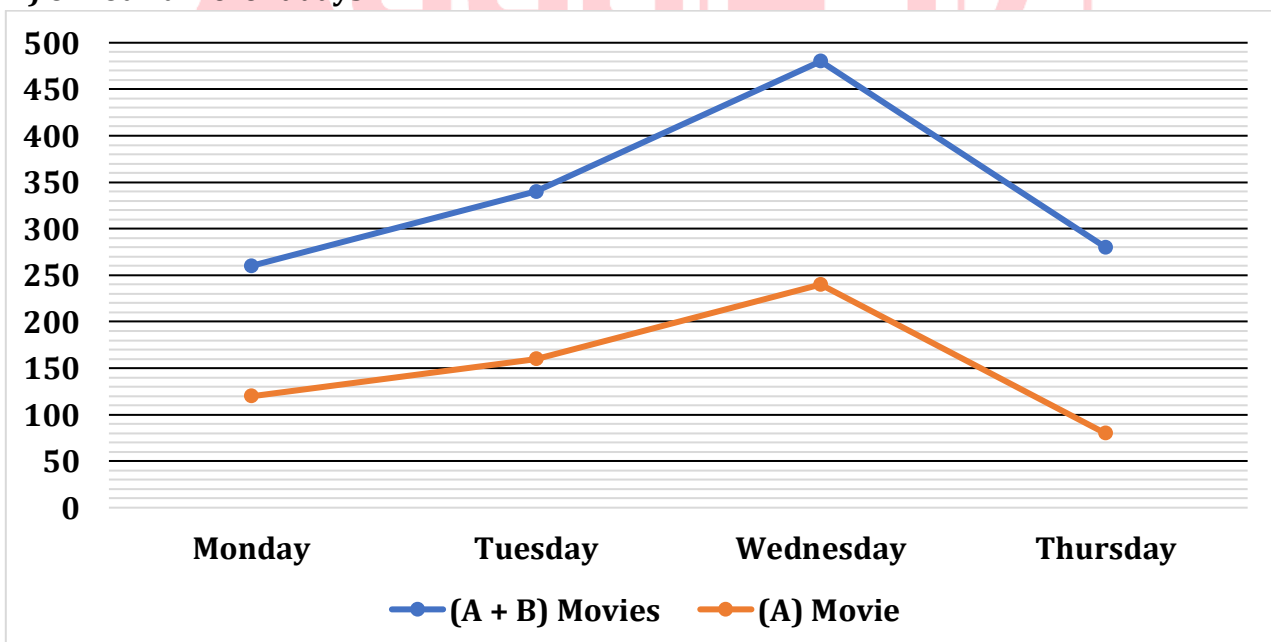
Q53. If the males in December are $\frac{4}{5}$ th of the females in October and the females in December are the average of the males in June and September, then find the total people (males and females) in December.

- (a) 1989
- (b) 1886
- (c) 1688
- (d) 1787
- (e) 1758

Q55. Find the difference between the total females in July and November together and the total people in August.

- (a) 908
- (b) 980
- (c) 809
- (d) 890
- (e) 970

Directions (56-60): Read the following line graph carefully and answer the questions given below. The line graph shows the total number of people who watched two different movies (A and B) on four different days.



Q56. Find the difference between the number of people who watched B movie on Thursday and that of on Wednesday.

- (a) 40
- (b) 30
- (c) 20
- (d) 10
- (e) 5

Q57. The number of people who watched A movie on Friday is 25% more than that of on Monday. If the total number of people who watched A and B movies together on Friday is $\frac{5}{8}$ th that of on Wednesday, then find the number of people who watched B movie on Friday.

- (a) 120
- (b) 150
- (c) 180
- (d) 200
- (e) 125

Q58. The number of people who watched B movie on Tuesday is what percentage of the number of people who watched A movie on Thursday?

- (a) 250%
- (b) 240%
- (c) 210%
- (d) 230%
- (e) 225%

Q59. The number of people who watched C movie on Monday is the average number of people who watched B movies on Tuesday and Thursday. Find the ratio of the number of people who watched C movie on Monday to the number of people who watched A movie on Tuesday.

- (a) 19:13
- (b) 19:17
- (c) 19:16
- (d) 19:11
- (e) 19:12

Q60. Find the average number of people who watched A movie on Monday and Wednesday.

- (a) 110
- (b) 130
- (c) 180
- (d) 140
- (e) 150

Directions (61-70): Read the following passage and answer the given questions.

In 2024, the landscape of customer service is rapidly evolving, with businesses relying more on artificial intelligence to enhance customer interactions. AI chatbots have become a crucial tool, enabling companies to provide instant support, streamline operations, and improve customer satisfaction. However, while AI offers efficiency and cost savings, human interaction continues to hold significant **value** in ensuring a positive customer experience. A well-balanced approach that integrates both AI automation and human support is essential for businesses to succeed in this competitive environment. One of the primary advantages of AI chatbots is their ability to **sort** through customer inquiries efficiently. These intelligent systems can handle repetitive questions, process transactions, and resolve simple issues in real-time. Unlike human agents, chatbots can operate 24/7 without breaks, ensuring continuous support for customers across different time zones. This capability helps businesses reduce operational costs and improve service efficiency. However, despite these benefits, chatbots have limitations, particularly when dealing with complex issues that require emotional intelligence and critical thinking.

A key challenge in customer service is finding the right balance _____ automation and human interaction. While AI chatbots provide quick resolutions, they often lack the ability to understand emotions, offer empathy, and provide nuanced responses. Customers facing unique problems or those seeking personalized assistance often prefer speaking to a human representative. Businesses must recognize that while chatbots can enhance efficiency, they should be used to complement human agents rather than replace them entirely. The best customer service models integrate AI for routine tasks while ensuring that skilled human agents handle more complicated concerns.

Providing excellent customer service also requires a strong focus on customer-based service strategies. Businesses must prioritize the needs of their customers and ensure that every interaction adds value to their experience. Human representatives must be trained not only in technical problem-solving but also in emotional intelligence and active listening. Personalized support and proactive engagement contribute significantly to building customer trust and long-term loyalty. Companies that fail to invest in these aspects risk losing customers despite having advanced AI systems in place.

To optimize customer service in 2024, businesses should follow some essential **tips**. First, they should leverage AI to manage high-volume, repetitive tasks while ensuring that human representatives are available for more complex issues. Second, training human agents to handle customer concerns with empathy and efficiency is critical to delivering high-quality service. Additionally, offering omnichannel support—such as live chat, social media, phone, and email—ensures that customers can reach businesses through their preferred communication channels. Gathering feedback and using AI-driven analytics to refine customer interactions can further enhance service quality and customer satisfaction. As consumer expectations continue to evolve, businesses must remain adaptable. AI-driven insights help companies understand customer preferences and behaviors, allowing them to make necessary improvements to their service strategies. However, technology alone is not enough. Companies that strike the right balance **between** AI automation and human interaction will create a seamless customer service experience, fostering stronger relationships and long-term customer loyalty. In 2024, businesses that effectively integrate both AI and human support will distinguish themselves in an increasingly competitive market.

Q61. Which of the following can be inferred from the passage regarding the role of AI in customer service?

- (a) AI has completely replaced human agents in most businesses due to its efficiency and cost-effectiveness.
- (b) AI chatbots have eliminated the need for human involvement in handling customer complaints.
- (c) AI is best suited for managing routine tasks, but human agents remain essential for handling complex or emotionally sensitive issues.
- (d) Businesses that rely solely on AI chatbots will experience greater customer satisfaction than those that integrate human agents.
- (e) Human representatives are no longer required in modern customer service, as AI can replicate empathy and problem-solving skills.

Q62. Which of the following statement(s) is/are about AI-driven customer service is correct based on the passage?

- (I) AI chatbots can operate without breaks, allowing businesses to provide continuous customer support across different time zones.
 - (II) Human interaction is no longer necessary in customer service, as AI systems can now fully understand emotions and customer concerns.
 - (III) Customer service strategies must balance automation and human involvement to ensure a seamless experience.
- (a) Only (I)
 - (b) Both (I) and (II)
 - (c) Only (III)
 - (d) Both (I) and (III)
 - (e) All (I), (II), and (III)

Q63. What is the meaning of the phrase "customer-based service strategies" as used in the passage?

- (a) Strategies that prioritize reducing customer service costs over service quality.
- (b) A business approach that focuses on understanding and meeting customer needs effectively.
- (c) The use of AI chatbots to handle all aspects of customer service without human involvement.
- (d) A marketing strategy that aims to attract new customers rather than retaining existing ones.
- (e) The reliance on standardized service responses rather than personalized customer interactions.

Q64. Which of the following is a fact stated in the passage, rather than an opinion?

- (a) AI-driven customer service is the best solution for modern businesses.
- (b) Human representatives should be eliminated as AI technology advances.
- (c) AI chatbots will completely replace human representatives in the near future.
- (d) The use of AI will always result in a positive customer experience.
- (e) AI chatbots can operate 24/7, providing continuous customer support across time zones.

Q65. Which of the following words conveys the same meaning as "value" as used in the passage?

- (a) inspiration
- (b) price
- (c) odium
- (d) importance
- (e) revelation

Q66. Choose the word from the options below to fill the blank given in the passage.

- (a) between
- (b) alone
- (c) in
- (d) among
- (e) on

Q67. Which of the following words conveys the same meaning as "sort" as used in the passage?

- (a) preview
- (b) fix
- (c) reverse
- (d) dismantle
- (e) filter

Q68. What is one possible effect of failing to integrate AI with human customer service, as discussed in the passage?

- (a) Businesses will experience higher customer retention rates despite lacking personalized support.
- (b) Customers will receive more accurate and detailed responses, improving satisfaction.
- (c) Customer frustration may increase due to chatbots' inability to handle complex emotional concerns.
- (d) The cost of customer service operations will increase significantly due to AI implementation.
- (e) Businesses will no longer need human representatives for customer interactions.

Q69. Which of the following words conveys the same meaning as "tips" as used in the passage?

To optimize customer service in 2024, businesses should follow some essential **tips**.

- (a) pursues
- (b) suggestions
- (c) reserves
- (d) evens
- (e) declines

Q70. A business wants to improve its customer service by integrating AI while maintaining high customer satisfaction. Which approach, based on the passage, would be most effective?

- (a) Rely entirely on AI chatbots to handle all customer concerns and eliminate human agents.
- (b) Use AI chatbots for routine tasks but ensure that human representatives handle complex interactions.
- (c) Automate all service responses to minimize customer inquiries.
- (d) Implement AI technology without human oversight, assuming customers will adjust.
- (e) Reduce the number of customer service interactions to avoid unnecessary communication.

Directions (71-75): Rearrange the following sentences in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

(A) Traditionally, people carve scary faces into pumpkins and place candles inside them to create glowing "jack-o'-lanterns."

(B) The tradition of carving pumpkins during Halloween is believed to have originated from an Irish folktale about "Stingy Jack."

(C) Over time, this practice became an essential part of Halloween celebrations, especially in the United States.

(D) According to the legend, Stingy Jack tricked the Devil multiple times and was doomed to wander the earth with only a carved turnip lantern to light his way.

(E) When Irish immigrants brought this custom to America, they found that pumpkins, being larger and easier to carve than turnips, were a better choice for lanterns.

Q71. Which of the following should be the FIRST sentence after rearrangement?

- (a) D
- (b) B
- (c) A
- (d) E
- (e) C

Q72. Which of the following should be the SECOND sentence after rearrangement?

- (a) D
- (b) C
- (c) A
- (d) E
- (e) B

Q73. Which of the following should be the THIRD sentence after rearrangement?

- (a) A
- (b) B
- (c) D
- (d) E
- (e) C

Q74. Which of the following should be the FIFTH (LAST) sentence after rearrangement?

- (a) A
- (b) D
- (c) E
- (d) C
- (e) B

Q75. Which of the following should be the FOURTH sentence after rearrangement?

- (a) A
- (b) D
- (c) E
- (d) C
- (e) B

Direction (76-78): In the question below, four words are given in bold. These four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should be interchanged with each other to make the sentence grammatically and contextually correct. Find the correct combination of the words that should replace each other.

Q76. Despite the fact (A) that some of the applicants attitude (B) with no credentials, Mr. Blackstone maintained (C) a receptive arrived (D) during every interview.

- (a) A-C & B-D
- (b) B-D
- (c) A-B & C-D
- (d) A-C
- (e) No interchange required

Q77. According to legend, voracious (A) are vampires (B) creatures who must consume (C) large amounts of blood in order to survive (D).

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

Q78. Harley and John both (A) desire to own (B) a home but will have to put to (C) this dream until they can afford off (D) buy.

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

Directions (79-81): A word/phrase has been given in the question and used in the sentences below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used correctly in all the statements, then mark option “All of these”, as the correct answer.

Q79. Get up

- (I) They decided to **get up** a tent near the lake for the night.
 - (II) She had to **get up** and give a speech in front of the entire class, which made her nervous.
 - (III) After falling off his bike, Jake quickly tried to **get up** and check if he was injured.
- (a) Only (I)
 - (b) Both (I) & (II)
 - (c) Only (III)
 - (d) Both (II) & (III)
 - (e) All of these

Q80. Fall behind

- (I) If you don't study regularly, you might **fall behind** in your coursework.
 - (II) The runner started strong but began to **fall behind** in the last few laps.
 - (III) Due to unexpected delays, the project has **fallen behind** schedule.
- (a) Only (I)
 - (b) Both (I) & (II)
 - (c) Only (III)
 - (d) Both (II) & (III)
 - (e) All of these

Q81. Rescue

- (I) The planets **rescue** around the sun in their respective orbits.
 - (II) Her entire research project **rescue** around the impact of climate change on marine life.
 - (III) The firefighters managed to **rescue** the trapped hikers from the mountain before nightfall.
- (a) Only (I)
 - (b) Both (I) & (II)
 - (c) Only (III)
 - (d) Both (II) & (III)
 - (e) All of these

Directions (82-88): In the following passage there are blanks, each of which has been denoted by a letter. For each blank, five options are given. Choose the most appropriate word from the options that fits the blank appropriately.

Food inflation has become a pressing concern for economies worldwide. The rising cost of essential commodities is often attributed to multiple factors, including supply chain disruptions, erratic weather patterns, and geopolitical tensions. When food prices rise beyond a certain threshold, it leads to a significant strain on household budgets, forcing consumers to _____ (A) their purchasing habits. Additionally, producers and retailers attempt to _____ (B) rising costs by adjusting prices, which further fuels inflationary pressures.

Another major contributor to food inflation is climate change, which causes irregular rainfall and extreme temperatures, adversely affecting agricultural yield. As a result, food production becomes more _____ (C), creating a supply-demand mismatch. Furthermore, global trade policies and import restrictions may _____ (D) the availability of essential food items, exacerbating the crisis. Central banks often respond to persistent inflation by altering interest rates to _____ (E) demand. However, food inflation is largely driven by supply-side issues, making it less responsive to monetary policies. In response, governments sometimes impose price controls or subsidies to _____ (F) the burden on consumers. While these measures provide temporary relief, they may also lead to unintended consequences such as hoarding and market _____ (G), further complicating the situation.

Q82. Which of the following words will fit in the given blank (A)?

- (a) recalibrate
- (b) commemorate
- (c) deteriorate
- (d) exasperate
- (e) magnify

Q83. Which of the following words will fit in the given blank (B)?

- (a) stipulate
- (b) mitigate
- (c) exacerbate
- (d) abdicate
- (e) perpetuate

Q84. Which of the following words will fit in the given blank (C)?

- (a) lucrative
- (b) redundant
- (c) precarious
- (d) exemplary
- (e) invincible

Q85. Which of the following words will fit in the given blank (D)?

- (a) ameliorate
- (b) expedite
- (c) facilitate
- (d) impede
- (e) rectify

Q86. Which of the following words will fit in the given blank (E)?

- (a) stimulate
- (b) pacify
- (c) restrict
- (d) invigorate
- (e) amplify

Q87. Which of the following words will fit in the given blank (F)?

- (a) saturate
- (b) scrutinize
- (c) aggravate
- (d) complicate
- (e) alleviate

Q88. Which of the following words will fit in the given blank (G)?

- (a) proliferation
- (b) renovation
- (c) cultivation
- (d) distortion
- (e) sanctification

Directions (89-93): In the following question, a sentence contains a highlighted phrase that may be grammatically incorrect. Choose the most appropriate option from the given alternatives to replace the highlighted phrase and correct the sentence. If the highlighted phrase is correct as it is, then choose “No replacement required” as the correct answer.

Q89. A dry run of the COVID-19 vaccine drive were conducted at healthcare facilities across the Capital on Wednesday.

- (a) vaccine drive was conduct at
- (b) vaccination drive were conducted in
- (c) vaccination drive was conducted to
- (d) vaccination drive was conducted at
- (e) No replacement required

Q90. The High Court asked the Centre and the UPSC to explain how they were selecting candidates for the Civil Services mains exam.

- (a) explain how it were selecting
- (b) explanation how they were selecting
- (c) explaining how they were selecting
- (d) explain how they were select
- (e) No replacement required

Q91. A group of lawmakers from Assam, has submitted a memorandum by the Centre seeking the implementation of Article 244A for the creation of an autonomous State.

- (a) have submitted a memorandum to
- (b) had submit a memorandum to
- (c) has submitted a memorandum along
- (d) has submitted a memorandum to
- (e) No replacement required

Q92. Doctors dealing with head injuries ask certain questions **to determine only if the patient is** fully oriented.

- (a) to determine if the patient is
- (b) for determine if the patient is
- (c) to determined if the patience is
- (d) to determine either the patient is
- (e) No replacement required

Q93. The committee members **was in agreement that** new safety protocols needed to be implemented immediately.

- (a) were in agreement too
- (b) was in agreement to
- (c) were in agreement that
- (d) was agree that
- (e) No replacement required

Directions (94-97): In the following question, four sentences are given which may be grammatically and contextually incorrect. Find the one which has no error and mark that as the answer. If all the given sentences are incorrect, then mark option 'All are incorrect' as the correct answer.

Q94.

- (a) Prime Minister handed away the indigenous main battle tank Arjun Mk-1A to the Army.
- (b) Mr. Trump's second impeachment trial was short than his first.
- (c) Rescue operations are on progress at the hydropower station which was ravaged by the flood.
- (d) The second dose of the approved vaccine is recommended to be administered four to six weeks apart.
- (e) All are incorrect

Q95.

- (a) Protesters at the border protest site held a candlelight march on Sunday evening
- (b) A student was arrested for alleged injecting a solution on a few underprivileged children
- (c) A man has been arrested for allegedly indulging in illegally sale of DDA plots
- (d) The mahapanchayats has emerged as new rallying points for the agitating farmers after Republic Day
- (e) All are incorrect

Q96.

- (a) Two farmers were washed away in the floodwaters while trying to save its crops in Solapur district of Maharashtra.
- (b) The Centre should work on furnishing efficacy data on Covaxin as well as improving public confident.
- (c) Relations among India and China suffered a dramatic setback following the violation by China
- (d) Twitter restored access to many of the withheld accounts
- (e) All are incorrect

Q97.

- (a) Facebook has not complied fully with the Indian government statutory orders.
- (b) Today, India completes nearly four weeks till it began administering the two COVID-19 vaccines.
- (c) Researchers have discover three fossils of the earliest known living animal.
- (d) The Party has put up a good show in the second phase of the panchayat elections.
- (e) All are incorrect

Directions (98-100): For the following question, a sentence is provided with three highlighted words that may be incorrectly positioned. Choose the correct sequence to rearrange these words, ensuring the sentence is both grammatically and contextually correct.

Q98. The country's **concerns (A)** on fossil fuels has raised **dependence (B)** about **environmental (C)** sustainability.

- (a) CBA
- (b) BAC
- (c) ACB
- (d) BCA
- (e) No rearrangement required

Q99. Many young entrepreneurs **impact (A)** to build innovative businesses that not only **generate (B)** profit but also create a positive **aspire (C)** on society and the environment.

- (a) ACB
- (b) BAC
- (c) CBA
- (d) BCA
- (e) No rearrangement required

Q100. For long journeys, **tiring (A)** by train is often **preferable (B)** to driving because it is more comfortable and less **traveling (C)**.

- (a) CBA
- (b) CAB
- (c) ACB
- (d) BAC
- (e) No rearrangement required

Directions (101-106): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

Q101. 4, 8, 31, 154, 923, 6460

- (a) 8
- (b) 4
- (c) 31
- (d) 154
- (e) 923

Q102. 5, 15, 12.5, 62.5, 31.25, 156.25

- (a) 15
- (b) 5
- (c) 62.5
- (d) 31.25
- (e) None of these

Q103. 7, 296, 657, 1098, 1627, 2250

- (a) 657
- (b) 296
- (c) 7
- (d) 2250
- (e) 1098

Q104. 18, 82, 207, 423, 768, 1278

- (a) 207
- (b) 82
- (c) 18
- (d) 768
- (e) 1278

Q105. 5.5, 8, 23, 91, 454, 2723

- (a) 5.5
- (b) 8
- (c) 23
- (d) 91
- (e) 454

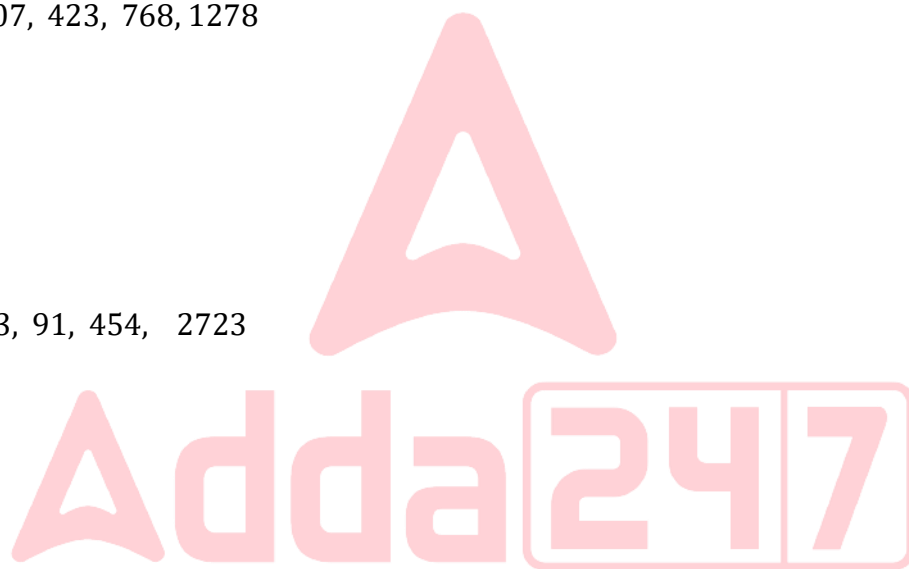
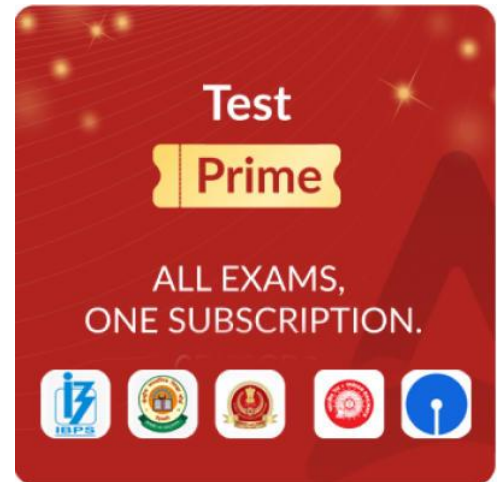
Q106. 350, 180, 90, 45, 22.5, 11.25

- (a) 180
- (b) 350
- (c) 90
- (d) 45
- (e) 22.5

Directions (107-111): Read the following information carefully and answer the questions given below. The information about election in three different towns.

Note: Total votes cast = Total invalid votes + Total valid votes.

The ratio of valid votes in B to invalid votes in A is 5:3, and the valid votes in C are 10 more than those in B. The ratio of valid to invalid votes in A is 7:3, and the invalid votes in C are 1/5th the valid votes in A. The total votes cast in B is 120. The difference between the valid and invalid votes in C is 64.



Q107. The total invalid votes in A is what percentage of the total valid votes in B?

- (a) 25%
- (b) 35%
- (c) 60%
- (d) 50%
- (e) 33.33%

Q108. Find the sum of the total valid votes in all three towns.

- (a) 290
- (b) 270
- (c) 265
- (d) 295
- (e) 300

Q109. Find the difference between the total votes cast in A and the total valid votes in B and C together.

- (a) 20
- (b) 15
- (c) 5
- (d) 10
- (e) 0

Q110. The total invalid valid in C is what percentage more or less than the total valid votes in A?

- (a) 16.67%
- (b) 33.33%
- (c) 50%
- (d) 75%
- (e) 80%

Q111. If the total votes cast in D is $\frac{3}{5}$ th that of in A and the invalid votes in D is 20% less than that of in B, then find the ratio of the total valid votes in D to C.

- (a) 54:85
- (b) 57:84
- (c) 51:89
- (d) 53 : 90
- (e) None of these

Directions (112-114): Read the following information carefully and answer the questions given below. The information is that three different persons produces jackets in a company.

A works 8 hours per day and produces 5 jackets in 2.5 hours. C works 4 hours per day and produces 5 jackets in 2 hours. B works 6 hours per day and produces 5 jackets in X hours. Total jackets produced by B in a day are 6 less than the total jackets produced by A and C in a day.

Q112. Find the value of X.

- (a) 1.5
- (b) 2
- (c) 3
- (d) 4.5
- (e) 0.5

Q113. Find the difference between the total jackets produced by A and C in A day.

- (a) 16
- (b) 10
- (c) 4
- (d) 6
- (e) None of these

Q114. Find the total number of jackets produced by B in 3 hours.

- (a) 6
- (b) 10
- (c) 5
- (d) 2
- (e) 8

Directions (115-120): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

Q115. $\sqrt{1679} + \frac{1}{6}$ of 11 = ? - 19.98% of 100

- (a) 89
- (b) 63
- (c) 42
- (d) 56
- (e) 98

Q116. $18^2 \times 4 - 29.98\%$ of 400 = ? $\times 12.2$

- (a) 84
- (b) 104
- (c) 98
- (d) 67
- (e) 77

Q117. $123.2 + 980.3 - 90.3 - 540.3 = ?$

- (a) 404
- (b) 489
- (c) 473
- (d) 412
- (e) 425

Q118. $\frac{190}{18.9} \times \frac{290}{28.98} = ? + 45.01\% \text{ of } 199$

- (a) 70
- (b) -80
- (c) 80
- (d) 100
- (e) 10

Q119. $12.09\% \text{ of } 299 + \frac{2}{9} \text{ of } 44 = ?$

- (a) 19
- (b) 23
- (c) 34
- (d) 46
- (e) 42

Q120. $\sqrt{44.9 \times 2 - 9.01} = ? - 24.99\% \text{ of } 400$

- (a) 102
- (b) 109
- (c) 105
- (d) 113
- (e) 118

Directions (121-125): In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer.

Q121. I. $x^2 - 21x + 80 = 0$

II. $y^2 - 34y + 288 = 0$

- (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

Q122. I. $x^2 - 26x + 105 = 0$

II. $y^2 - 20y + 75 = 0$

- (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

Q123. I. $2x^2 - 17x + 33 = 0$

II. $3y^2 - 17y + 24 = 0$

- (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

Q124. I. $5x^2 + 6x - 95 = 0$

II. $y^2 + 16y + 63 = 0$

- (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

Q125. I. $x^2 - 20x + 51 = 0$

II. $y^2 - 5y + 6 = 0$

- (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

Q126. A 50 liters mixture contains milk and water, and the quantity of water is 16% of the total mixture. If X liters of milk are added to the mixture, then the quantity of water becomes 10%. Find X.

- (a) 30
- (b) 12
- (c) 18
- (d) 25
- (e) 35

Q127. A man invests Rs x in compound interest for two years at 10% p.a. If he invests Rs $2x$ for three years at the same rate, then the difference between their interest is Rs 9040. Find x .

- (a) 12000
- (b) 20000
- (c) 18000
- (d) 15000
- (e) 40000

Q128. $3A - 4B = -2$ and $\frac{6B+4A}{9} = 6$.

Quantity I. Find the value of A.

Quantity II. Find the value of B.

- (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

Q129. A, B and C entered into a partnership by investing Rs. 400, Rs. 500 and Rs. 1000 respectively. If the time period of investment of A, B and C is t months, $(t-2)$ months and $(t + 4)$ months respectively, then the profit share ratio of A, B and C is 16: 15: 60 respectively. Find the value of t^2 .

- (a) 49
- (b) 64
- (c) 36
- (d) 81
- (e) 144

Q130. Average of M consecutive odd numbers is P and the average of M consecutive even number is Q . If the first term of odd number series and even number series is $A + 7$ and A respectively, then find the difference between P and Q .

- (a) 13
- (b) 11
- (c) 23
- (d) 7
- (e) Can't be determined

Q131. Article A sold at the profit of 20%. Article A and B are marked up by 50% and 87.5% respectively. If the marked price of both the article are same and the difference between the selling price of A and the cost price of B is Rs. 400, then find the marked price of A.

- (a) Rs. 1800
- (b) Rs. 1500
- (c) Rs. 1200
- (d) Rs. 1300
- (e) Rs. 1400

Q132. Container A contains 30 liters mixture of milk and water whereas B and C contains 10 liters pure milk and 5 liters water respectively. If half quantity from each container pour into another container, then the quantity of milk becomes twice of the water in the resultant mixture. Find the difference between the quantity of milk and water in the container A.

- (a) 15 liters
- (b) 12 liters
- (c) 5 liters
- (d) 8 liters
- (e) 10 liters

Q133. A, B and C together can complete the work in 20 days, A and B alone can complete the work in 60 and 40 days respectively. Find the number of days taken by A and C together to complete the 25% of that work.

- (a) 15 days
- (b) 10 days
- (c) 12 days
- (d) 11days
- (e) 8 days

Q134. A boat covers D km downstream in $2T$ hours and it takes T hours when the boat covers ($D - 400$) km in still water. If the speed of boat in still water is six time the speed of current, then find the value of D .

- (a) 750
- (b) 710
- (c) 740
- (d) 730
- (e) 700

Q135. Train A of length X meter crosses a pole in 15 sec and the train B of length Y meters crosses the pole in 5 sec. If the train A crosses train B which is standing on a platform in 25 sec., then find the ratio of the length of train A to B.

- (a) 3:2
- (b) 3:1
- (c) 1:2
- (d) 5:3
- (e) 4:3

Q136. If Sheetal's present age is 40% more than Suruchi's present age and the sum of their ages 5 years from now will be 82, then find the difference between their ages 4 years ago (In years).

- (a) 10
- (b) 12
- (c) 14
- (d) 16
- (e) 18

Q137. Rajat spends 25% of his monthly income on rent, 20% of remaining spends in transportation, 10 % of remaining spends in clothing. If Rajat divided remaining income between his brother and sister equally and difference between amount spend by Rajat on rent and amount given to his sister is Rs. 1600, then find monthly income of Rajat (in Rs.)?

- (a) 80000
- (b) 60000
- (c) 75000
- (d) 100000
- (e) 96000

Direction (138–140): The following questions are accompanied by two statements i.e. statement (I) and statement (II). You have to determine which statement (s) is/are sufficient to answer the questions.

Q138. Find difference between 60% of each number.

I. 45% of first number is equal to 72% of second number.

II. When we add 120 to the average of both the numbers, then becomes equal to first number.

- (a) Only I alone
- (b) Both I and II together are not sufficient
- (c) Either I alone or II alone
- (d) Only II alone
- (e) Both I and II together are sufficient

Q139. Two trains having length of 60 m and 80 m are running in the same direction. Find time taken by them to cross each other.

I. Speed of both train is 80 kmph and 64 kmph respectively

II. Second train crosses a pole in $9/2$ seconds and the ratio speed of both train is 5 : 4.

- (a) Either I alone or II alone
- (b) Both I and II together are not sufficient
- (c) Only I alone
- (d) Only II alone
- (e) Both I and II together are sufficient

Q140. Find ratio of radius of the circle to the length of the side of equilateral triangle.

I. The ratio of area of a circle to the area of an equilateral triangle is $16\pi:\sqrt{3}$.

II. The ratio of perimeter of the circle and equilateral triangle is $4\pi : 3$.

- (a) Only II alone
- (b) Both I and II together are not sufficient
- (c) Only I alone
- (d) Either I alone or II alone
- (e) Both I and II together are sufficient

Solutions

Solutions (1-5):

Final arrangement:

Designations	Persons
MD	P
CEO	K
CTO	T
CFO	L
VP	Q
GM	M
AGM	S
DGM	O
Manager	N
TL	R

Clues: K is senior to GM. Three persons are designated between K and M. P is immediate senior to K. The number of persons senior to P is two less than the number of persons junior to O.

Inference: Here, we have two possible cases:

Designations	Persons	
	Case 1	Case 2
MD		P
CEO		K
CTO	P	
CFO	K	
VP		
GM	O	M
AGM		
DGM	M	O
Manager		
TL		

Clues: Four designations are in between L and N. Q is either immediate senior to immediate junior to L.

Inference: Case 1 will cancel here because Q can't be placed.

Designations	Persons	
	Case 1	Case 2
MD		P
CEO	L/N	K
CTO	P	
CFO	K	L/N
VP	L/N	Q/
GM	O	M
AGM	N/L	
DGM	M	O
Manager		N/L
TL	N/L	Q/

Clues: R is not AGM. S is senior to R but junior to T.

Inference: Now, the final arrangement is:

Designations	Persons
MD	P
CEO	K
CTO	T
CFO	L
VP	Q
GM	M
AGM	S
DGM	O
Manager	N
TL	R

S1. Ans.(b)

Sol. T - CTO

S2. Ans.(b)

Sol. Three persons are junior to S

S3. Ans.(d)

Sol. S is two designations junior to Q.

S4. Ans.(c)

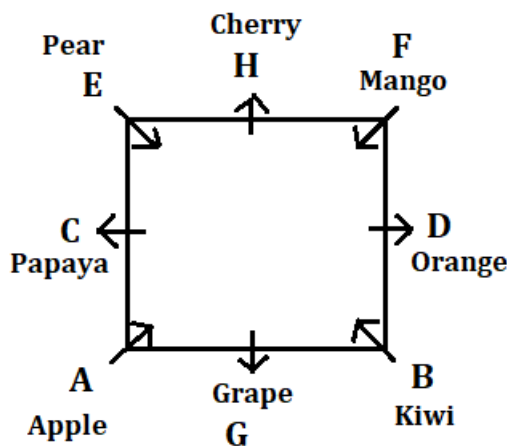
Sol. Only I is correct

S5. Ans.(e)

Sol. Except 'N-R', rest pair has one designation gap between both persons.

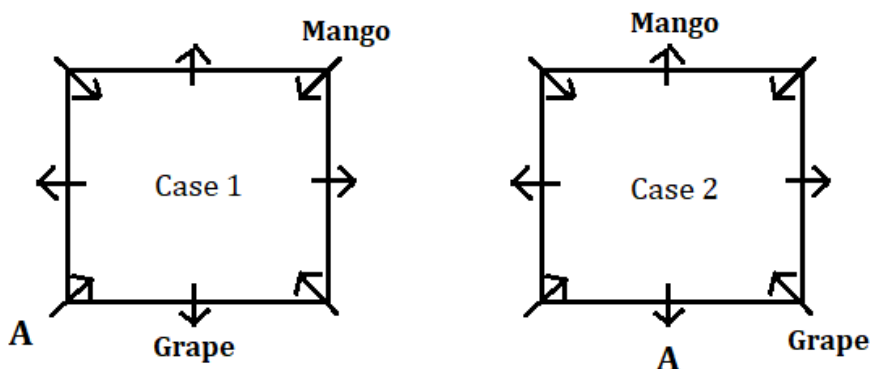
Solutions (6-10):

Final arrangement:



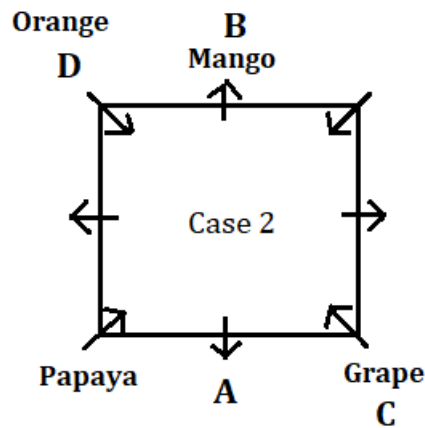
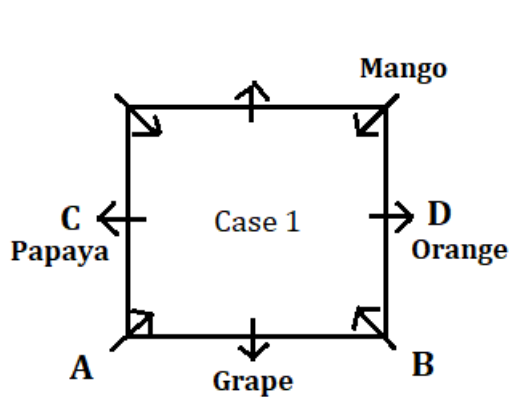
Clues: Three persons sit between A and the one who likes mango. The one who likes grape sits immediate right of A.

Inference: Here, we have two possible cases:



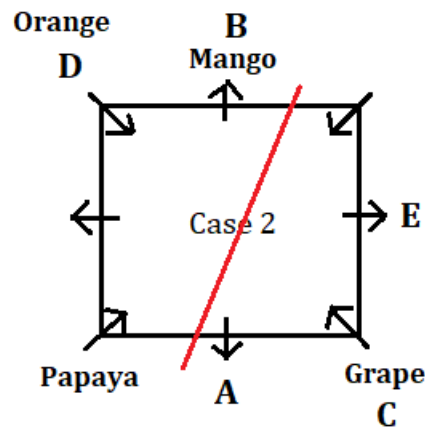
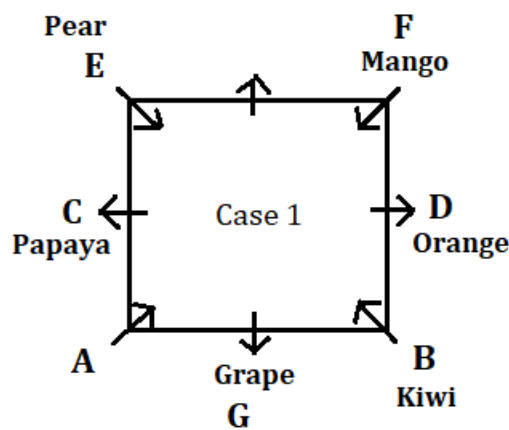
Clues: B and the one who likes grape do not face in same direction. The one who likes papaya sits three persons to the left of B. The number of persons sit between A and B is one less than the number of persons sit between B and C (when counted from the left of both B and C). D likes orange and sits opposite to C.

Inference: Above clues are placed in both cases:



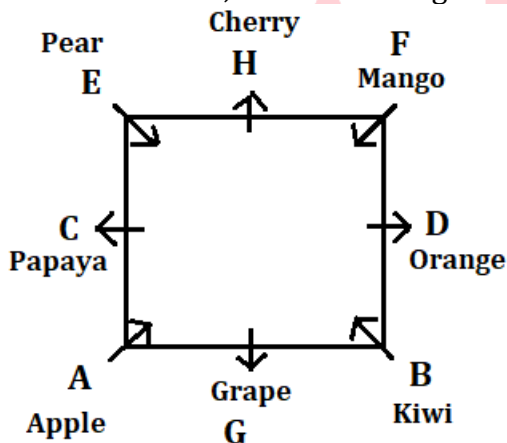
Clues: E sits third to the left of D. The one who likes pear sits second to the right of F. The one who likes kiwi sits immediate left of G.

Inference: Case 2 will cancel here because there is no place for F.



Clues: Two persons sit between H and the one who likes apple. One of the persons like cherry.

Inference: Now, the final arrangement is:



S6. Ans.(a)

Sol. The one likes grape sits opposite to the one who likes cherry.

S7. Ans.(a)

Sol. Third to the right

S8. Ans.(e)

Sol. A like apple and sits second to the left of B.

S9. Ans.(d)

Sol. 'A-cherry' is incorrect

S10. Ans.(c)

Sol. Statement (c) is correct

Solutions (11-15):

Final arrangement:

Persons	Items
P	Pumpkin
O	Potato
R	Lemon
M	Banana
K	Carrot
L	Raspberry
N	Tomato
Q	Apricot

Clues: Three persons purchase the item between K and P. Tomato is purchased two persons after K. Number of persons purchase the item before P is same as the number of persons purchase the item between Q and the one who purchase tomato.

Inference: Here, we have two possible cases:

Persons	Items	Persons	Items
Case 1		Case 2	
K		P	
	Tomato		
P		K	
		Q/	
			Tomato
Q		Q/	

Clues: Potato is purchased four persons before L. One item is purchased between L and M. Carrot is purchased two persons before N but immediate after banana. Lemon is purchased before carrot but after pumpkin.

Inference: Case 1 will cancel here because there is no place for pumpkin.

Persons	Items	Persons	Items
Case 1		Case 2	
K	Lemon	P	Pumpkin
	Potato		Potato
	Tomato		Lemon
M	Banana	M	Banana
P	Carrot	K	Carrot
L		L	
N		N	Tomato
Q		Q	

Clues: More than four items are purchased between O and apricot. Raspberry is purchased after R.

Inference: Now, the final arrangement is:

Persons	Items
P	Pumpkin
O	Potato
R	Lemon
M	Banana
K	Carrot
L	Raspberry
N	Tomato
Q	Apricot

S11. Ans.(b)

Sol. R - Lemon

S12. Ans.(d)

Sol. M purchased banana two persons after O

S13. Ans.(c)

Sol. Only III is true

S14. Ans.(d)

Sol. Five items are purchased before Raspberry

S15. Ans.(b)

Sol. O - Potato

S16. Ans.(b)

Sol. The passage states that many users share news without verifying its authenticity, which leads to misinformation. This suggests that verifying information before sharing is important, making Option B the best inference.

S17. Ans.(d)

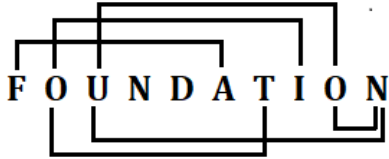
Sol. The 'frozen zoo' directly contributes to conserving endangered species, making Conclusion 1 valid. Conclusion 3 follows as the statement confirms the eastern Himalayan region as a biodiversity hotspot. However, Conclusion 2 is incorrect because the statement refers to the region, not specifically Darjeeling Zoo, as having over 300 mammal species. Hence, only Conclusions 1 and 3 are correct.

S18. Ans.(e)

Sol. The Special Olympics is a large-scale international event, which logically requires extensive logistical planning and coordination, making Assumption 1 implicit. Such events also attract spectators from different parts of the world, so Assumption 2 follows. Additionally, since the statement highlights inclusivity, it implies efforts to break stereotypes and change perceptions about athletes with disabilities, making Assumption 3 valid. Therefore, all assumptions are implicit.

S19. Ans.(e)

Sol. Six pairs



S20. Ans.(c)

Sol. 352697452 - 024864624

Sum = 0+8 = 8

Solutions (21-25):

Final arrangement:

Years	Ages	Persons	Colors
1963	61	A	Pink
1968	56	H	Yellow
1972	52	E	Green
1975	49	C	Black
1984	40	G	White
1991	33	D	Red
1996	28	F	Grey
2007	17	B	Blue

Clues: Age of H is a multiple of 4. Three persons were born between H and the one who likes red. G is 12 years older than F. The one who likes yellow is three persons older to G.

Inference: Here, we have two possible cases:

Years	Ages	Persons	Colors	Persons	Colors
		Case 1		Case 2	
1963	61				
1968	56		Yellow	H	Yellow
1972	52	H			
1975	49				
1984	40	G		G	
1991	33				Red
1996	28	F	Red	F	
2007	17				

Clues: E is 9 years younger than the one who likes pink. D is immediate older to the one who likes grey.

Inference: Case 1 will cancel here because there is no place for E.

Years	Ages	Persons	Colors	Persons	Colors
		Case 1		Case 2	
1963	61				Pink
1968	56		Yellow	H	Yellow
1972	52	H		E	
1975	49			D/	
1984	40	G		G	Grey/
1991	33			D/	Red
1996	28	F	Red	F	Grey/
2007	17				

Clues: C is younger to the one who likes green and older to the one who likes white. Two persons were born between B and the one who likes white. A and B do not like black. A is older to the one who likes blue.

Inference: Now, the final arrangement is:

Years	Ages	Persons	Colors
1963	61	A	Pink
1968	56	H	Yellow
1972	52	E	Green
1975	49	C	Black
1984	40	G	White
1991	33	D	Red
1996	28	F	Grey
2007	17	B	Blue

S21. Ans.(d)

Sol. $A+B+C = 61+17+49 = 127$ years

S22. Ans.(a)

Sol. 2007 - Blue

S23. Ans.(c)

Sol. Four persons are younger than the one who likes black.

S24. Ans.(b)

Sol. F likes grey

S25. Ans.(d)

Sol. 1972 - Green

Solutions (26-30):

Final arrangement:

Months	Persons
January	N
February	K
March	T
April	V
May	M
June	U
July	Q
August	L
September	R
October	S
November	P
December	O

Clues: K joins the coaching in the month having even number of days. Five persons join the coaching between K and L. Number of persons join before L is same as the number of persons join after M. N joins four months before M.

Inference: Here, we have three possible cases:

Months	Persons	Persons	Persons
	Case 1	Case 2	Case 3
January	N		
February	K		
March		L	
April			N
May	M		L
June		N	
July			
August	L		M
September		K	
October		M	
November			K
December			

Clues: The months in which N and O join the coaching, have same number of days. P joins the coaching immediately before O. Number of persons join the coaching between P and M is same as the number of persons join the coaching between Q and N.

Inference: Case 2 and case 3 will cancel here as there is no place for P.

Months	Persons	Persons	Persons
	Case 1	Case 2	Case 3
January	N		
February	K		
March		L	
April		O	N
May	M		L
June		N	O
July	Q		
August	L		M
September		K	O
October		M	
November	P	O	K
December	O		

Clues: R joins the coaching just before S. Two persons join coaching between T and U who joins the coaching after V.

Inference: Now, the final arrangement is:

Months	Persons
January	N
February	K
March	T
April	V
May	M
June	U
July	Q
August	L
September	R
October	S
November	P
December	O

S26. Ans.(a)

Sol. V - April

S27. Ans.(c)

Sol. R - September

S28. Ans.(a)

Sol. Except K, rest joins the coaching in the month having 31 days.

S29. Ans.(b)

Sol. Only II is correct

S30. Ans.(d)

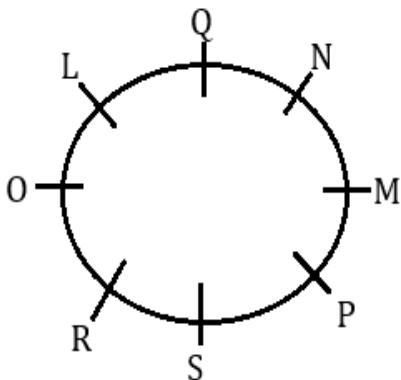
Sol. Number of persons joins the coaching before V and after R are same.

S31. Ans.(b)

Sol. SEED

S32. Ans.(a)

Sol. From both statement I and II:



M sits to the immediate right of P

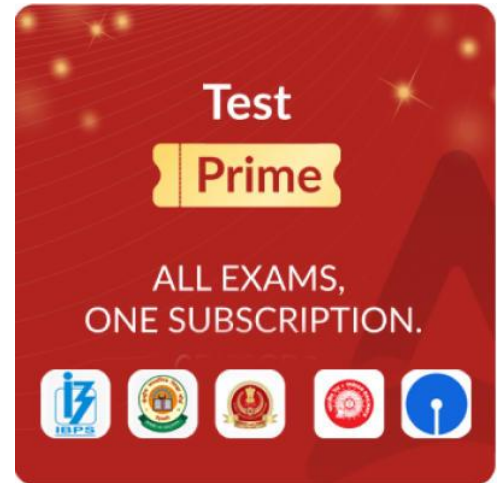
S33. Ans.(d)

Sol. Both statements not sufficient to give the answer

S34. Ans.(b)


Sol. From statement I

Stacks	Boxes
7	D
6	
5	
4	B
3	C
2	
1	



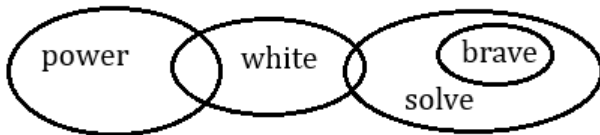
Test Prime

ALL EXAMS, ONE SUBSCRIPTION.



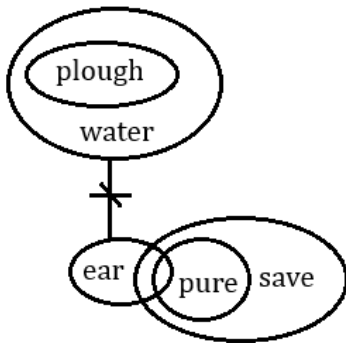
S35. Ans.(b)

Sol.



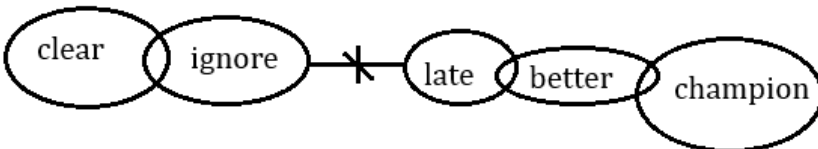
S36. Ans.(c)

Sol.

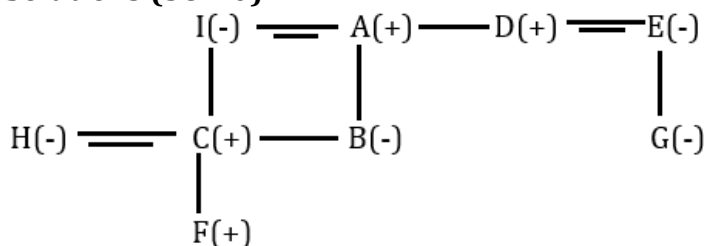


S37. Ans.(c)

Sol.



Solutions (38-40):



S38. Ans.(d)

Sol. Five female members in the family

S39. Ans.(b)

Sol. Except H, all are male members in the family

S40. Ans.(c)

Sol. A is the father-in-law of H

Solutions (41-45):

Operation applied in each step are defined below:

Logic here is:

Words: The words are picked according to the dictionary order in each step and arranged at extreme left end.

Numbers: The highest number is picked at placed at extreme right end in each step.

Now, this same logic is followed in each step.

Sol. Input: play 25 moon 40 chair 15 lamp 90 help 60

Step I: chair play 25 moon 40 15 lamp help 60 90

Step II: help chair play 25 moon 40 15 lamp 90 60

Step III: lamp help chair play 25 moon 15 90 60 40

Step IV: moon lamp help chair play 15 90 60 40 25

Step V: play moon lamp help chair 90 60 40 25 15

S41. Ans.(a)

Sol. help chair play 25 moon 40 15 lamp 90 60

S42. Ans.(c)

Sol. Step III: lamp help chair play 25 moon 15 90 60 40

S43. Ans.(e)

Sol. Step IV: moon lamp help chair play 15 90 60 40 25

15 is sixth from the left end

S44. Ans.(d)

Sol. Given input is step V

S45. Ans.(a)

Sol. Step I: chair play 25 moon 40 15 lamp **help** 60 90- "help" is third from the right end in Step I.

Solutions (46-50):

Given, $(3A + 20 + A + 17 + 31)\% = 100\%$

$4A = 100 - 68$

$A = 8$

Total number of people who visit Mussoorie = $1500 \times \frac{3(8)}{100} = 360$

Total number of people who visit Darjeeling = $1500 \times \frac{20}{100} = 300$

Total number of people who visit Leh = $1500 \times \frac{8}{100} = 120$

Total number of people who visit Shimla = $1500 \times \frac{17}{100} = 255$

Total number of people who visit Nainital = $1500 \times \frac{31}{100} = 465$

S46. Ans.(b)

Sol. Required difference = $255 - 120 = 135$

S47. Ans.(e)

Sol. Total number of people who visit Nainital on Tuesday = $\frac{60}{100} \times 465 = 279$

Required difference = $360 - 279 = 81$

S48. Ans.(a)

Sol. The total number of people visit Auli = $\frac{100+8+12}{100} \times 300 = 360$

Required percentage = $\frac{360}{360} \times 100 = 100\%$

S49. Ans.(c)

Sol. Males who visit Shimla = $255 \times \frac{11}{17} = 165$

Females who visit Shimla = $255 - 165 = 90$

Males who visit Mussoorie = $165 + 5(8) = 205$

Females who visit Mussoorie = $360 - 205 = 155$

Required sum = $155 + 90 = 245$

S50. Ans.(c)

Sol. Required percentage = $\frac{(120+465)-300}{300} \times 100 = 95\%$

Solutions (51-55):

Months	Total People (Males + Females)	Total males	Total females
June	$40 \times 30 = 1200$	800	$1200 - 800 = 400$
July	$55 \times 31 = 1705$	960	$1705 - 960 = 745$
August	$85 \times 31 = 2635$	1235	$2635 - 1235 = 1400$
September	$65 \times 30 = 1950$	1500	$1950 - 1500 = 450$
October	$70 \times 31 = 2170$	1250	$2170 - 1250 = 920$
November	$60 \times 30 = 1800$	800	$1800 - 800 = 1000$

S51. Ans.(e)

Sol. Required ratio = $1000 : 1705 = 200 : 341$

S52. Ans.(d)

Sol. Required percentage = $\frac{1200-920}{1200} \times 100 = 23.33\%$

S53. Ans.(a)

Sol. ATQ,

$$281250 = (X + 5) \times 1500 + 125 \times 450$$

$$150 = X + 5$$

$$X = 145$$

S54. Ans.(b)

Sol. Males in December = $\frac{4}{5} \times 920 = 736$

Females in December = $\frac{800+1500}{2} = 1150$

Required people = $736 + 1150 = 1886$

S55. Ans.(d)

Sol. Required difference = $2635 - (745 + 1000) = 890$

Solutions (56-60):

Days	(A+B) Movies	A movie	B movie
Monday	260	120	140
Tuesday	340	160	180
Wednesday	480	240	240
Thursday	280	80	200

S56. Ans.(a)

Sol. Required difference = $240 - 200 = 40$

S57. Ans.(b)

Sol. The number of people who watched A movie on Friday = $\frac{5}{4} \times 120 = 150$

Total number of people who watched A and B movies together on Friday

$$= \frac{5}{8} \times 480 = 300$$

The number of people who watched B movie on Friday = $300 - 150 = 150$

S58. Ans.(e)

Sol. Required percentage = $\frac{180}{80} \times 100 = 225\%$

S59. Ans.(c)

Sol. Number of people who watched C movie on Monday = $\frac{200+180}{2} = 190$

Required ratio = $190 : 160 = 19 : 16$

S60. Ans.(c)

Sol. Required average = $\frac{120+240}{2} = 180$

S61. Ans.(c)

Sol. The correct answer is:

(c) AI is best suited for managing routine tasks, but human agents remain essential for handling complex or emotionally sensitive issues.

Explanation:

To support this answer, let's refer to key lines from the passage:

1. **"One of the primary advantages of AI chatbots is their ability to sort through customer inquiries efficiently. These intelligent systems can handle repetitive questions, process transactions, and resolve simple issues in real-time."**
 - This confirms that AI chatbots are well-suited for handling routine tasks.
2. **"However, despite these benefits, chatbots have limitations, particularly when dealing with complex issues that require emotional intelligence and critical thinking."**
 - This highlights that AI cannot fully replace human agents for more complex or emotionally sensitive customer concerns.
3. **"Businesses must recognize that while chatbots can enhance efficiency, they should be used to complement human agents rather than replace them entirely."**
 - This further supports the idea that AI is useful for automation, but human agents remain necessary.

Eliminating Other Options:

- **(a) AI has completely replaced human agents...** → Incorrect, as the passage clearly states that AI should complement, not replace, human agents.
- **(b) AI chatbots have eliminated the need for human involvement...** → Incorrect, as AI cannot handle emotionally complex issues.
- **(d) Businesses that rely solely on AI chatbots will experience greater customer satisfaction...** → Incorrect, as the passage emphasizes the importance of balancing AI with human interaction.
- **(e) Human representatives are no longer required...** → Incorrect, since AI cannot fully replicate empathy and critical thinking.

Thus, **option (c)** is the best choice based on the passage.

S62. Ans.(d)

Sol. The correct answer is:

(d) Both (I) and (III)

Explanation with References from the Passage:

Statement (I):

"Unlike human agents, chatbots can operate 24/7 without breaks, ensuring continuous support for customers across different time zones."

- **Correct.** This directly supports the statement that AI chatbots can provide uninterrupted customer support.

Statement (II):

"While AI chatbots provide quick resolutions, they often lack the ability to understand emotions, offer empathy, and provide nuanced responses."

- **Incorrect.** The passage clearly states that AI cannot fully understand emotions or provide empathy, which means human interaction is still necessary.

Statement (III):

"Businesses must recognize that while chatbots can enhance efficiency, they should be used to complement human agents rather than replace them entirely."

"The best customer service models integrate AI for routine tasks while ensuring that skilled human agents handle more complicated concerns."

- **Correct.** This supports the idea that customer service strategies should balance AI automation and human involvement for a seamless experience.

Eliminating Other Options:

- **(a) Only (I)** → Incorrect because (III) is also correct.
- **(b) Both (I) and (II)** → Incorrect because (II) is incorrect.
- **(c) Only (III)** → Incorrect because (I) is also correct.
- **(e) All (I), (II), and (III)** → Incorrect because (II) is incorrect.

Thus, option **(d) Both (I) and (III)** is the correct answer.

S63. Ans.(b)

Sol. The correct answer is:

(b) A business approach that focuses on understanding and meeting customer needs effectively.

Explanation with Reference from the Passage:

The phrase "**customer-based service strategies**" appears in the following passage excerpt:

"Providing excellent customer service also requires a strong focus on customer-based service strategies. Businesses must prioritize the needs of their customers and ensure that every interaction adds value to their experience."

This clearly indicates that **customer-based service strategies** are about understanding and meeting customer needs effectively to enhance their experience.

Eliminating Other Options:

- **(a) Strategies that prioritize reducing customer service costs over service quality.** ✗
 - Incorrect. The passage emphasizes improving service quality rather than cost-cutting.
- **(c) The use of AI chatbots to handle all aspects of customer service without human involvement.** ✗
 - Incorrect. The passage advocates for a **balance** between AI and human support, not full automation.
- **(d) A marketing strategy that aims to attract new customers rather than retaining existing ones.** ✗
 - Incorrect. The passage focuses on **customer experience and loyalty**, not just acquiring new customers.
- **(e) The reliance on standardized service responses rather than personalized customer interactions.** ✗
 - Incorrect. The passage emphasizes **personalized support and engagement**, not just standardized responses.

Thus, option **(b) is the correct answer**, as it best captures the essence of prioritizing customer needs and improving their experience.

S64. Ans.(e)

Sol. The correct answer is:

(e) AI chatbots can operate 24/7, providing continuous customer support across time zones.

Explanation with Reference from the Passage:

A fact is a statement that can be proven true, while an opinion reflects personal beliefs or interpretations.

The passage states:

"Unlike human agents, chatbots can operate 24/7 without breaks, ensuring continuous support for customers across different time zones."

This is a verifiable fact, making **option (e) the correct choice.**

Eliminating Other Options:

- **(a) AI-driven customer service is the best solution for modern businesses. ✗**
 - Opinion. The passage discusses the benefits of AI but does not claim it is the **best** solution.
- **(b) Human representatives should be eliminated as AI technology advances. ✗**
 - Opinion. The passage explicitly states that AI should **complement** human agents, not replace them.
- **(c) AI chatbots will completely replace human representatives in the near future. ✗**
 - Opinion/speculation. The passage emphasizes the importance of **balancing AI with human support**, not full replacement.
- **(d) The use of AI will always result in a positive customer experience. ✗**
 - Opinion. The passage mentions AI limitations, such as the lack of emotional intelligence, which can negatively impact customer experiences.

Thus, **option (e) is the correct answer, as it presents a factual statement supported by the passage.**

S65. Ans.(d)

Sol. The correct answer is:

(d) importance

Meanings of the Words:

1. **Value (noun) - महत्व, मूल्य (Mahatva, Moolya)**
 - Meaning: The importance, worth, or usefulness of something.
 - In the passage, "value" refers to the significance of human interaction in customer experience.
2. **(a) Inspiration - प्रेरणा (Prerna) ✗ Incorrect**
 - Meaning: A feeling of enthusiasm or motivation to do something.
 - The word "**value**" in the passage does not mean motivation or encouragement.
3. **(b) Price - मूल्य, कीमत (Moolya, Keemat) ✗ Incorrect**
 - Meaning: The amount of money expected, required, or given in exchange for something.
 - While "value" can sometimes mean price, in the passage, it refers to **importance**, not cost.
4. **(c) Odium - घृणा, नफरत (Ghrina, Nafrat) ✗ Incorrect**
 - Meaning: General or widespread hatred or disgust directed toward someone.
 - "Value" in the passage has a **positive** connotation, whereas "odium" has a negative meaning.
5. **(d) Importance - महत्व, अहमियत (Mahatva, Ahmiyat) ✓ Correct**
 - Meaning: The quality of being significant or valuable.
 - The passage highlights how **human interaction holds significant "value" (importance) in customer experience.**

6. (e) Revelation - रहस्योद्घाटन, खुलासा (Rahasya Udgatan, Khulasa) ✗ Incorrect

- Meaning: A surprising and previously unknown fact that has been disclosed.
- "Value" in the passage does not refer to revealing new information.

Final Answer:

Since "**importance**" is the most accurate synonym for "value" in this context, the correct answer is **(d) importance**.

S66. Ans.(a)

Sol. The correct answer is:

(a) between

Explanation with Meaning of the Options:

The correct preposition for comparing **two elements** (automation and human interaction) is "**between**". The sentence refers to finding a balance **between two things**, making "between" the most suitable choice.

Now, let's analyze the other options:

1. **(a) Between - के बीच (Ke beech) ✓ Correct**

- Meaning: Used when referring to two things or groups.
- The passage contrasts **automation** and **human interaction**, which are **two** aspects, so "between" is the correct word.

2. **(b) Alone - अकेला (Akela) ✗ Incorrect**

- Meaning: By oneself, without others.
- The sentence is about balancing two things, not about being alone.

3. **(c) In - में (Me) ✗ Incorrect**

- Meaning: Inside something or as part of something.
- "In automation and human interaction" does not make sense in this context.

4. **(d) Among - के बीच में (Ke beech me) ✗ Incorrect**

- Meaning: Used when referring to more than two things.
- "Among" is used when discussing three or more elements, but the sentence only mentions two (automation and human interaction).

5. **(e) On - पर (Par) ✗ Incorrect**

- Meaning: Refers to something being placed or happening on a surface.
- "Finding the right balance on automation and human interaction" is grammatically incorrect.

Final Answer:

The best choice is **(a) between**, as it correctly expresses the balance **between two things (automation and human interaction)**.

S67. Ans.(e)

Sol. The correct answer is:

(e) filter

Explanation with Meanings in English & Hindi:

In the sentence:

"One of the primary advantages of AI chatbots is their ability to sort through customer inquiries efficiently."

Here, "**sort through**" means **to organize, categorize, or process information in an orderly manner**.

Now, let's analyze the options:

1. **(a) Preview – पूर्ववलोकन करना (Pūrvaavalokan Karna) ❌ Incorrect**
 - Meaning: To see or inspect something before it becomes available.
 - "Sort through" means **organizing or filtering**, not just viewing something beforehand.
2. **(b) Fix – सुधारना (Sudharna) ❌ Incorrect**
 - Meaning: To repair or correct something.
 - "Sort through" does not mean **to repair** customer inquiries but rather **to organize or categorize** them.
3. **(c) Reverse – उलटना (Ultaana) ❌ Incorrect**
 - Meaning: To change something to its opposite direction or position.
 - "Sort through" means **arranging and categorizing**, not reversing or changing direction.
4. **(d) Dismantle – अलग करना, तोड़ना (Alag Karna, Todna) ❌ Incorrect**
 - Meaning: To take apart or break something down.
 - This is the opposite of what "sort through" means.
5. **(e) Filter – छानना, अलग करना (Chhanna, Alag Karna) ✅ Correct**
 - Meaning: To separate, refine, or organize information based on criteria.
 - AI chatbots **filter (sort through)** customer inquiries, organizing and directing them efficiently.

Final Answer:

The correct choice is **(e) filter**, as it best captures the idea of **sorting through and processing** customer inquiries efficiently.

S68. Ans.(c)

Sol. The correct answer is:

(c) Customer frustration may increase due to chatbots' inability to handle complex emotional concerns.

Explanation with Reference from the Passage:

The passage states:

- "While AI chatbots provide quick resolutions, they often lack the ability to understand emotions, offer empathy, and provide nuanced responses."
- "Customers facing unique problems or those seeking personalized assistance often prefer speaking to a human representative."
- "Businesses must recognize that while chatbots can enhance efficiency, they should be used to complement human agents rather than replace them entirely."

These points indicate that failing to integrate AI with human support can lead to **customer frustration**, as AI lacks emotional intelligence and the ability to handle personalized concerns.

Eliminating Other Options:

- **(a) Businesses will experience higher customer retention rates despite lacking personalized support. ❌**
 - Incorrect. The passage states that businesses **risk losing customers** if they fail to provide personalized support.
- **(b) Customers will receive more accurate and detailed responses, improving satisfaction. ❌**
 - Incorrect. AI chatbots handle routine queries efficiently but struggle with complex or emotionally sensitive issues, which can reduce satisfaction.

- **(d) The cost of customer service operations will increase significantly due to AI implementation. ✗**
 - Incorrect. AI **reduces operational costs** by handling repetitive queries, as mentioned in the passage.
- **(e) Businesses will no longer need human representatives for customer interactions. ✗**
 - Incorrect. The passage emphasizes that AI **should complement, not replace, human agents.**

Final Answer:

Since **customer frustration due to AI's inability to handle emotional concerns** is a key issue discussed in the passage, the correct answer is **(c)**.

S69. Ans.(b)

Sol. The correct answer is:

(b) suggestions

Explanation with Reference from the Passage:

In the sentence:

"To optimize customer service in 2024, businesses should follow some essential tips."

The word **"tips"** means **advice or recommendations** on how to improve customer service.

Now, let's analyze the options:

1. **(a) Pursues - पीछा करना, प्रयास करना (Peecha Karna, Prayas Karna) ✗ Incorrect**
 - Meaning: To actively follow or try to achieve something.
 - "Tips" in the passage refers to **recommendations**, not actively chasing something.
2. **(b) Suggestions - सुझाव, परामर्श (Sujhav, Paramarsh) ✓ Correct**
 - Meaning: Ideas or recommendations on what to do.
 - This fits perfectly, as **"tips"** in the passage refers to guidance for businesses.
3. **(c) Reserves - आरक्षित चीजें, भंडार (Aarakshit Cheezen, Bhandar) ✗ Incorrect**
 - Meaning: Something set aside for future use.
 - "Tips" does not refer to stored items but to recommendations.
4. **(d) Evens - बराबर करना, संतुलित करना (Barabar Karna, Santulit Karna) ✗ Incorrect**
 - Meaning: To make something equal or level.
 - "Tips" in the passage does not refer to balancing things.
5. **(e) Declines - गिरावट, मना करना (Girawat, Mana Karna) ✗ Incorrect**
 - Meaning: A decrease or refusal.
 - "Tips" means advice, which is unrelated to decline.

Final Answer:

The best synonym for **"tips"** in this context is **(b) suggestions**, as it correctly conveys the meaning of **recommendations for improvement**.

S70. Ans.(b)

Sol. The correct answer is:

(b) Use AI chatbots for routine tasks but ensure that human representatives handle complex interactions.

Explanation with Reference from the Passage:

The passage highlights the importance of **balancing AI and human interaction** in customer service.

Key lines supporting this choice include:

- "The best customer service models integrate AI for routine tasks while ensuring that skilled human agents handle more complicated concerns."
- "Businesses must recognize that while chatbots can enhance efficiency, they should be used to complement human agents rather than replace them entirely."
- "Customers facing unique problems or those seeking personalized assistance often prefer speaking to a human representative."

This confirms that AI should handle repetitive tasks, while human agents should be available for more complex issues.

Eliminating Other Options:

- **(a) Rely entirely on AI chatbots to handle all customer concerns and eliminate human agents.** ✗
 - Incorrect. The passage states that AI cannot replace human agents due to its lack of emotional intelligence and critical thinking.
- **(c) Automate all service responses to minimize customer inquiries.** ✗
 - Incorrect. The passage emphasizes that customers prefer human interaction for complex concerns, so full automation is not effective.
- **(d) Implement AI technology without human oversight, assuming customers will adjust.** ✗
 - Incorrect. The passage highlights the need for human oversight to handle unique or emotional issues.
- **(e) Reduce the number of customer service interactions to avoid unnecessary communication.** ✗
 - Incorrect. The passage suggests that customer engagement is crucial for trust and long-term loyalty, not minimizing interactions.

Final Answer:

The best approach, based on the passage, is **(b) Use AI chatbots for routine tasks but ensure that human representatives handle complex interactions.**

S71. Ans.(b)

Sol. Correct Sequence: B - D - E - A - C

Explanation:

1. **(B)** introduces the **origin** of the tradition by mentioning the Irish folktale about "Stingy Jack."
2. **(D)** provides details about the folktale, explaining how **Jack was cursed to roam the earth with a turnip lantern.**
3. **(E)** connects the folktale to the modern tradition, explaining how Irish immigrants **adapted the practice to pumpkins** in America.
4. **(A)** describes **how people carve pumpkins today**, referring to them as "jack-o'-lanterns."
5. **(C)** concludes by stating that **pumpkin carving became a key part of Halloween celebrations**, especially in the U.S.

Thus, **B-D-E-A-C** is the only logical and meaningful sequence.

S72. Ans.(a)

Sol. Correct Sequence: B - D - E - A - C

Explanation:

1. **(B)** introduces the **origin** of the tradition by mentioning the Irish folktale about "Stingy Jack."
2. **(D)** provides details about the folktale, explaining how **Jack was cursed to roam the earth with a turnip lantern.**
3. **(E)** connects the folktale to the modern tradition, explaining how Irish immigrants **adapted the practice to pumpkins** in America.

4. **(A)** describes **how people carve pumpkins today**, referring to them as "jack-o'-lanterns."
5. **(C)** concludes by stating that **pumpkin carving became a key part of Halloween celebrations**, especially in the U.S.

Thus, **B-D-E-A-C** is the only logical and meaningful sequence.

S73. Ans.(d)

Sol. Correct Sequence: B - D - E - A - C

Explanation:

1. **(B)** introduces the **origin** of the tradition by mentioning the Irish folktale about "Stingy Jack."
2. **(D)** provides details about the folktale, explaining how **Jack was cursed to roam the earth with a turnip lantern**.
3. **(E)** connects the folktale to the modern tradition, explaining how Irish immigrants **adapted the practice to pumpkins** in America.
4. **(A)** describes **how people carve pumpkins today**, referring to them as "jack-o'-lanterns."
5. **(C)** concludes by stating that **pumpkin carving became a key part of Halloween celebrations**, especially in the U.S.

Thus, **B-D-E-A-C** is the only logical and meaningful sequence.

S74. Ans.(d)

Sol. Correct Sequence: B - D - E - A - C

Explanation:

1. **(B)** introduces the **origin** of the tradition by mentioning the Irish folktale about "Stingy Jack."
2. **(D)** provides details about the folktale, explaining how **Jack was cursed to roam the earth with a turnip lantern**.
3. **(E)** connects the folktale to the modern tradition, explaining how Irish immigrants **adapted the practice to pumpkins** in America.
4. **(A)** describes **how people carve pumpkins today**, referring to them as "jack-o'-lanterns."
5. **(C)** concludes by stating that **pumpkin carving became a key part of Halloween celebrations**, especially in the U.S.

Thus, **B-D-E-A-C** is the only logical and meaningful sequence.

S75. Ans.(a)

Sol. Correct Sequence: B - D - E - A - C

Explanation:

1. **(B)** introduces the **origin** of the tradition by mentioning the Irish folktale about "Stingy Jack."
2. **(D)** provides details about the folktale, explaining how **Jack was cursed to roam the earth with a turnip lantern**.
3. **(E)** connects the folktale to the modern tradition, explaining how Irish immigrants **adapted the practice to pumpkins** in America.
4. **(A)** describes **how people carve pumpkins today**, referring to them as "jack-o'-lanterns."
5. **(C)** concludes by stating that **pumpkin carving became a key part of Halloween celebrations**, especially in the U.S.

Thus, **B-D-E-A-C** is the only logical and meaningful sequence.

S76. Ans.(b)

Sol. Correct Answer: (b) B-D

Meanings of the words:

1. **Fact** (तथ्य) – Something that is known or proven to be true.
2. **Attitude** (रवैया/दृष्टिकोण) – A person's way of thinking or feeling about something.
3. **Maintained** (बनाए रखा / कायम रखा) – Kept something in a particular state or continued it.
4. **Arrived** (पहुंचे / आया) – Reached a place.

Why (b) B-D is correct?

• **Incorrect placement:**

- "Some of the applicants **attitude** with no credentials" does not make sense. Instead, "arrived with no credentials" fits logically.
- "Mr. Blackstone **maintained a receptive arrived**" is incorrect. The correct phrase should be "maintained a receptive attitude."

• **Corrected sentence:**

- "Despite the fact that some of the applicants arrived with no credentials, Mr. Blackstone maintained a receptive attitude during every interview."

Thus, swapping B ("attitude") and D ("arrived") makes the sentence grammatically and contextually correct.

S77. Ans.(d)

Sol. Correct Answer: (d) A-B

Meanings of the words:

1. **Voracious** (अत्यधिक भूखा / लालची) – Having a huge appetite, consuming large amounts.
2. **Vampires** (पिशाच / रक्तपायी प्राणी) – Mythical creatures that drink blood to survive.
3. **Consume** (खाना / निगलना) – To eat, drink, or use up something.
4. **Survive** (जीवित रहना / बचना) – To continue to live despite difficulties.

Why (d) A-B is correct?

• **Incorrect placement:**

- "According to legend, **voracious are vampires creatures**" is incorrect because "voracious" (an adjective) should describe "creatures," not "are vampires."
- The phrase "vampires creatures" is also incorrect; it should be "voracious creatures" to describe their hunger.

• **Corrected sentence:**

- "According to legend, vampires are voracious creatures who must consume large amounts of blood in order to survive."

Thus, swapping A ("voracious") and B ("vampires") makes the sentence grammatically and contextually correct.

S78. Ans.(a)

Sol. Correct Answer: (a) C-D

Meanings of the words:

1. **Both** (दोनों) – Refers to two people or things together.
2. **Own** (स्वयं का / मालिक होना) – To possess something.
3. **To** (को / तक / करने के लिए) – A preposition used for direction, purpose, or movement.
4. **Off** (टालना / बंद करना) – In this context, "put off" means to delay something.

Why (a) C-D is correct?

• **Incorrect placement:**

- "Put to this dream" is incorrect; the correct phrase is **"put off this dream"**, which means to postpone it.
- "Afford off buy" is incorrect; the correct phrase should be **"afford to buy"**, where "to buy" follows "afford."

• **Corrected sentence:**

- **"Harley and John both desire to own a home but will have to put off this dream until they can afford to buy."**

Thus, swapping C ("to") and D ("off") makes the sentence grammatically and contextually correct.

S79. Ans.(d)

Sol. Correct Answer: (d) Both (II) & (III)

Meaning of "Get up":

1. **English:**

- To rise from a sitting, lying, or reclining position.
- To stand up or prepare for an action.

2. **Hindi (हिंदी):**

- खड़े होना या उठना
- नींद से जागना या किसी गतिविधि के लिए तैयार होना

Analysis of Each Sentence:

1. **(I) "They decided to get up a tent near the lake for the night." ❌**

- Incorrect usage.
- "Get up" does not mean "set up" or "pitch" a tent. The correct phrase should be **"set up a tent"** instead.

2. **(II) "She had to get up and give a speech in front of the entire class, which made her nervous." ✅**

- Correct usage.
- "Get up" is correctly used here to mean **"stand up"** before giving a speech.

3. **(III) "After falling off his bike, Jake quickly tried to get up and check if he was injured." ✅**

- Correct usage.
- "Get up" is correctly used to mean **"rise to his feet"** after falling.

Final Answer: (d) Both (II) & (III)

S80. Ans.(e)

Sol. Correct Answer: (e) All of these

Meaning of "Fall behind":

1. **English:**

- To lag or not keep up with others in progress, work, or schedule.
- To be delayed or unable to meet a deadline.

2. **Hindi (हिंदी):**

- पीछे रह जाना / धीमा पड़ जाना
- अन्य लोगों या निर्धारित समय सीमा से पिछड़ जाना

Analysis of Each Sentence:

1. **(I) "If you don't study regularly, you might fall behind in your coursework." ✓**
 - Correct usage.
 - "Fall behind" correctly means **not keeping up with studies** or coursework.
2. **(II) "The runner started strong but began to fall behind in the last few laps." ✓**
 - Correct usage.
 - "Fall behind" correctly describes **a runner losing pace** compared to others.
3. **(III) "Due to unexpected delays, the project has fallen behind schedule." ✓**
 - Correct usage.
 - "Fallen behind schedule" correctly means **the project is delayed** from the planned timeline.

Final Answer: (e) All of these

S81. Ans.(c)

Sol. Correct Answer: (c) Only (III)

Meaning of "Rescue":

1. **English:**
 - **To save someone or something from danger or a difficult situation.**
2. **Hindi (हिंदी):**
 - बचाना / संकट से निकालना

Analysis of Each Sentence:

1. **(I) "The planets rescue around the sun in their respective orbits." ✗**
 - Incorrect usage.
 - "Rescue" does not fit here. The correct word should be **"revolve"** ("The planets **revolve** around the sun").
2. **(II) "Her entire research project rescue around the impact of climate change on marine life." ✗**
 - Incorrect usage.
 - "Rescue" does not make sense in this context. The correct word should be **"revolves"** ("Her entire research project **revolves** around the impact of climate change").
3. **(III) "The firefighters managed to rescue the trapped hikers from the mountain before nightfall." ✓**
 - Correct usage.
 - "Rescue" correctly means **saving the hikers from danger.**

Final Answer: (c) Only (III)

S82. Ans.(a)

Sol. Correct Answer: (a) recalibrate

Meanings of the words:

1. **Recalibrate** (फिर से समायोजित करना / पुनः निर्धारित करना) – To adjust or modify something to improve accuracy or effectiveness.
2. **Commemorate** (स्मरण करना / यादगार बनाना) – To honor or celebrate a person or event.
3. **Deteriorate** (बिगड़ना / गिरावट आना) – To become worse over time.
4. **Exasperate** (क्रोधित करना / चिढ़ाना) – To annoy or make someone extremely irritated.
5. **Magnify** (बढ़ाना / बढ़ा-चढ़ाकर दिखाना) – To make something appear larger or more important.

Why (a) "recalibrate" is correct?

- The sentence discusses how rising food prices **force consumers to change their purchasing habits**.
- "Recalibrate" means **to adjust or modify behavior**, which fits perfectly in the context of adapting to price changes.

Why other options are incorrect?

- **Commemorate** ✗ (Does not fit because it refers to celebrating or honoring something, which is irrelevant here.)
- **Deteriorate** ✗ (Incorrect because consumers do not "deteriorate" their habits; they change or adjust them.)
- **Exasperate** ✗ (Incorrect because it means to irritate, but the sentence is about adjusting behavior, not frustration.)
- **Magnify** ✗ (Does not fit because it means to increase or exaggerate, which does not relate to purchasing habits.)

Final Sentence with the Correct Word:

"When food prices rise beyond a certain threshold, it leads to a significant strain on household budgets, forcing consumers to *recalibrate* their purchasing habits."

S83. Ans.(b)

Sol. Correct Answer: (b) mitigate

Meanings of the words:

1. **Stipulate** (शर्त रखना / निर्धारित करना) – To demand or specify a condition in an agreement.
2. **Mitigate** (कम करना / प्रभाव को घटाना) – To reduce or lessen the impact of something.
3. **Exacerbate** (बिगाड़ना / और खराब करना) – To worsen a situation or problem.
4. **Abdicate** (त्यागना / छोड़ देना) – To renounce a position of responsibility or authority.
5. **Perpetuate** (स्थायी बनाना / बनाए रखना) – To make something continue indefinitely.

Why (b) "mitigate" is correct?

- The sentence states that **producers and retailers adjust prices to deal with rising costs**.
- "**Mitigate**" means **to reduce or lessen the impact**, which fits the context because they are trying to manage or control the price increases.

Why other options are incorrect?

- **Stipulate** ✗ (Incorrect because it means to specify a condition, which is unrelated to adjusting prices.)
- **Exacerbate** ✗ (Incorrect because it means to make things worse, but the sentence suggests an attempt to manage costs.)
- **Abdicate** ✗ (Incorrect because it means to give up responsibility, which does not fit the context of producers adjusting prices.)
- **Perpetuate** ✗ (Incorrect because it means to continue something indefinitely, which does not describe price adjustments.)

Final Sentence with the Correct Word:

"Additionally, producers and retailers attempt to *mitigate* rising costs by adjusting prices, which further fuels inflationary pressures."

S84. Ans.(c)

Sol. Correct Answer: (c) precarious

Meanings of the words:

1. **Lucrative** (लाभकारी / फायदेमंद) – Producing a lot of profit.
2. **Redundant** (अतिरिक्त / अनावश्यक) – Unnecessary or no longer needed.
3. **Precarious** (अस्थिर / अनिश्चित) – Not secure, likely to collapse or fail.
4. **Exemplary** (उत्कृष्ट / आदर्श) – Serving as a model or best example.
5. **Invincible** (अजेय / जिसे हराया न जा सके) – Too powerful to be defeated or overcome.

Why (c) "precarious" is correct?

- The sentence discusses how **climate change negatively affects agricultural yield**, causing **instability in food production**.
- "**Precarious**" means **unstable or uncertain**, which perfectly describes the unpredictable nature of food production due to climate change.

Why other options are incorrect?

- **Lucrative** ✗ (Incorrect because food production is becoming difficult, not profitable.)
- **Redundant** ✗ (Incorrect because food production is not unnecessary; it is essential.)
- **Exemplary** ✗ (Incorrect because the sentence does not describe something as a model of excellence.)
- **Invincible** ✗ (Incorrect because food production is becoming unstable, not unbeatable.)

Final Sentence with the Correct Word:

"As a result, food production becomes more *precarious*, creating a supply-demand mismatch."

S85. Ans.(d)

Sol. Correct Answer: (d) impede

Meanings of the words:

1. **Ameliorate** (सुधारना / बेहतर बनाना) – To improve or make something better.
2. **Expedite** (तेज़ करना / शीघ्र करना) – To speed up a process or make something happen faster.
3. **Facilitate** (सुविधाजनक बनाना / आसान करना) – To make something easier or help it progress smoothly.
4. **Impede** (रोकना / बाधा डालना) – To obstruct or slow down progress.
5. **Rectify** (सुधारना / ठीक करना) – To correct or fix a mistake.

Why (d) "impede" is correct?

- The sentence discusses **global trade policies and import restrictions affecting the availability of essential food items**.
- "**Impede**" means **to obstruct or slow down progress**, which fits the context because trade restrictions **limit or block the supply of food items**, worsening the crisis.

Why other options are incorrect?

- **Ameliorate** ✗ (Incorrect because it means to improve, but restrictions are causing problems, not solving them.)
- **Expedite** ✗ (Incorrect because restrictions do not speed up availability; they slow it down.)
- **Facilitate** ✗ (Incorrect because restrictions do not make availability easier; they create hurdles.)
- **Rectify** ✗ (Incorrect because restrictions are not fixing a problem; they are worsening it.)

Final Sentence with the Correct Word:

"Furthermore, global trade policies and import restrictions may *impede* the availability of essential food items, exacerbating the crisis."

S86. Ans.(c)

Sol. Correct Answer: (c) restrict

Meanings of the words:

1. **Stimulate** (उत्तेजित करना / प्रोत्साहित करना) – To encourage or boost activity, development, or interest.
2. **Pacify** (शांत करना / दबाना) – To calm or soothe someone.
3. **Restrict** (सीमित करना / रोक लगाना) – To limit or control something.
4. **Invigorate** (ऊर्जावान बनाना / स्फूर्ति देना) – To energize or make something stronger.
5. **Amplify** (बढ़ाना / विस्तार करना) – To increase or make something more intense.

Why (c) "restrict" is correct?

- The sentence discusses how **central banks respond to inflation** by adjusting interest rates.
- **Inflation happens when demand is too high**, so central banks usually **increase interest rates to reduce spending and limit demand**.
- **"Restrict" means to limit or control something**, which fits the context because **central banks aim to reduce demand to curb inflation**.

Why other options are incorrect?

- **Stimulate** ✗ (Incorrect because stimulating demand means increasing it, but central banks restrict demand to control inflation.)
- **Pacify** ✗ (Incorrect because pacifying refers to calming a situation, not controlling economic demand.)
- **Invigorate** ✗ (Incorrect because invigorate means to energize, which is the opposite of what central banks do to demand in inflationary conditions.)
- **Amplify** ✗ (Incorrect because amplifying means increasing, but central banks need to **decrease** demand.)

Final Sentence with the Correct Word:

"Central banks often respond to persistent inflation by altering interest rates to *restrict* demand." ✓

S87. Ans.(e)

Sol. Correct Answer: (e) alleviate

Meanings of the words:

1. **Saturate** (भिगोना / पूरी तरह भर देना) – To completely fill or soak something.
2. **Scrutinize** (गहराई से जांचना / बारीकी से देखना) – To examine something very carefully.
3. **Aggravate** (बिगाड़ना / और खराब करना) – To worsen a problem or situation.
4. **Complicate** (जटिल बनाना / उलझाना) – To make something more difficult or complex.
5. **Alleviate** (कम करना / राहत देना) – To reduce pain, difficulty, or burden.

Why (e) "alleviate" is correct?

- The sentence states that governments **impose price controls or subsidies to help consumers deal with rising food prices**.
- **"Alleviate" means to reduce or lessen a burden**, which fits the context perfectly because **subsidies help ease the financial pressure on consumers**.

Why other options are incorrect?

- **Saturate** ✗ (Incorrect because "saturate" means to completely fill, which does not match the idea of reducing a burden.)
- **Scrutinize** ✗ (Incorrect because it means to examine something closely, which is unrelated to easing financial pressure.)
- **Aggravate** ✗ (Incorrect because it means to make something worse, but subsidies aim to reduce hardship, not worsen it.)
- **Complicate** ✗ (Incorrect because subsidies aim to make things easier, not more complex.)

Final Sentence with the Correct Word:

"In response, governments sometimes impose price controls or subsidies to *alleviate* the burden on consumers." ✓

S88. Ans.(d)

Sol. Correct Answer: (d) distortion

Meanings of the words:

1. **Proliferation** (तेज़ी से बढ़ोतरी / प्रसार) – A rapid increase in number or spread of something.
2. **Renovation** (नवीनीकरण / मरम्मत) – The process of restoring or improving something.
3. **Cultivation** (कृषि उत्पादन / खेती करना) – The process of growing crops or improving something through effort.
4. **Distortion** (विकृति / तोड़-मरोड़ देना) – The act of twisting, misrepresenting, or altering something in a way that makes it inaccurate.
5. **Sanctification** (पवित्रता / शुद्धि) – The process of making something holy or sacred.

Why (d) "distortion" is correct?

- The sentence states that **price controls and subsidies provide temporary relief but may lead to unintended consequences.**
- Common economic side effects of **government interventions** like **price controls** include **hoarding, black markets, and market inefficiencies.**
- "**Distortion**" refers to **disruptions in how the market naturally functions**, which fits perfectly because such interventions often **distort** supply-demand mechanisms.

Why other options are incorrect?

- **Proliferation** ✗ (Incorrect because it means rapid increase, but the sentence refers to unintended negative effects, not just an increase.)
- **Renovation** ✗ (Incorrect because renovation means improving or restoring, which does not fit the idea of economic disruption.)
- **Cultivation** ✗ (Incorrect because cultivation relates to agriculture or improvement, not economic side effects.)
- **Sanctification** ✗ (Incorrect because sanctification means making something holy, which does not relate to economic impacts.)

Final Sentence with the Correct Word:

"While these measures provide temporary relief, they may also lead to unintended consequences such as hoarding and market *distortion*, further complicating the situation." ✓

S89. Ans.(d)

Sol. Correct Answer: (d) "vaccination drive was conducted at"

Grammatical Errors in the Highlighted Phrase:

1. **Incorrect subject-verb agreement:**

- "A dry run of the COVID-19 vaccine drive **were** conducted" is incorrect.
- The subject "**A dry run**" is **singular**, so it should take the singular verb "**was**", not "**were**".

2. **Incorrect phrase choice:**

- "Vaccine drive" is incorrect terminology.
- The correct term is "**vaccination drive**", which refers to the organized effort of administering vaccines.

3. **Incorrect preposition:**

- The phrase "**conducted at**" is correct because the dry run happened **at healthcare facilities**, indicating a location.

Analysis of Each Option:

- **(a) "vaccine drive was conduct at" ❌ (Incorrect)**
 - "Vaccine drive" is incorrect; should be "**vaccination drive**".
 - "Was conduct" is incorrect; it should be "**was conducted**" (past participle).
- **(b) "vaccination drive were conducted in" ❌ (Incorrect)**
 - "Were" is incorrect; it should be "**was**" (singular subject).
 - "Conducted in" does not fit well; "at healthcare facilities" is more appropriate.
- **(c) "vaccination drive was conducted to" ❌ (Incorrect)**
 - "Conducted to" is incorrect because "to" does not correctly indicate the location where the dry run took place.
- **(d) "vaccination drive was conducted at" ✅ (Correct)**
 - "Vaccination drive" is the correct term.
 - "Was conducted" maintains correct subject-verb agreement.
 - "At healthcare facilities" correctly describes the location.
- **(e) No replacement required ❌ (Incorrect)**
 - The original phrase contains errors in subject-verb agreement and terminology.

Final Corrected Sentence:

"A dry run of the COVID-19 vaccination drive was conducted at healthcare facilities across the Capital on Wednesday." ✅

S90. Ans.(e)

Sol. Correct Answer: (e) No replacement required

Grammatical Analysis of the Given Sentence:

• **Correct subject-verb agreement:**

- "The High Court asked the Centre and the UPSC to **explain** how they **were selecting** candidates."
- "Asked" (past tense) correctly governs the infinitive verb "to explain."
- "They **were selecting**" correctly follows the past continuous tense, which is appropriate for an ongoing action in the past.

Analysis of Each Option:

- (a) "explain how it were selecting" ❌ (Incorrect)
 - "It" is incorrect because **"they"** correctly refers to **the Centre and the UPSC** (plural).
 - "Were" should not be used with **"it"**, as "it" is singular and requires **"was"** instead.
- (b) "explanation how they were selecting" ❌ (Incorrect)
 - "Explanation" (noun) does not fit grammatically.
 - The correct verb **"explain"** is needed instead.
- (c) "explaining how they were selecting" ❌ (Incorrect)
 - "Explaining" (present participle) makes the sentence ungrammatical; the correct verb form **"explain"** should be used.
- (d) "explain how they were select" ❌ (Incorrect)
 - "Were select" is incorrect; the correct phrase is **"were selecting"** to match past continuous tense.
- (e) "No replacement required" ✅ (Correct)
 - The original sentence is **grammatically and contextually correct**.

Final Corrected Sentence:

"The High Court asked the Centre and the UPSC to explain how they were selecting candidates for the Civil Services mains exam." ✅

S91. Ans.(d)

Sol. Correct Answer: (d) "has submitted a memorandum to"

Grammatical Errors in the Highlighted Phrase:

1. **Incorrect preposition ("by" → "to")**
 - **"Submitted a memorandum by the Centre"** is incorrect because **"by"** suggests that the Centre submitted the memorandum, which is not the intended meaning.
 - The correct preposition is **"to"**, as the lawmakers **submitted the memorandum to the Centre**.
2. **No error in verb agreement ("has submitted")**
 - The subject **"A group"** is singular, so it correctly takes **"has submitted"** (singular verb).
 - **"Lawmakers"** is part of the phrase, but the main subject remains **"A group"** (singular).

Analysis of Each Option:

- (a) "have submitted a memorandum to" ❌ (Incorrect)
 - "Have submitted" is incorrect because **"A group" is singular** and should take **"has submitted"** instead.
- (b) "had submit a memorandum to" ❌ (Incorrect)
 - "Had submit" is incorrect; after "had," the correct verb form should be **"had submitted"** (past perfect tense).
- (c) "has submitted a memorandum along" ❌ (Incorrect)
 - "Along" is an incorrect word choice and makes the sentence incomplete.
- (d) "has submitted a memorandum to" ✅ (Correct)
 - "Has submitted" correctly agrees with the singular subject **"A group"**.
 - "To the Centre" correctly shows the recipient of the memorandum.
- (e) "No replacement required" ❌ (Incorrect)
 - The original phrase **"by the Centre"** is incorrect; it should be **"to the Centre"**.

Final Corrected Sentence:

"A group of lawmakers from Assam has submitted a memorandum to the Centre seeking the implementation of Article 244A for the creation of an autonomous State." ✅

S92. Ans.(a)

Sol. Correct Answer: (a) "to determine if the patient is"

Grammatical Errors in the Highlighted Phrase:

1. Incorrect use of "only if"

- "Only if" is used to express a necessary condition, but here it disrupts the sentence structure.
- The sentence should simply say "to determine if the patient is fully oriented" without "only."

2. Correct verb form ("to determine")

- The correct phrase is "to determine" (infinitive form).
- "To determine if the patient is" correctly follows "ask certain questions."

Analysis of Each Option:

- (a) "to determine if the patient is" ✓ (Correct)
 - "To determine" correctly follows "ask certain questions."
 - "If the patient is" correctly forms the conditional statement.
- (b) "for determine if the patient is" ✗ (Incorrect)
 - "For determine" is incorrect because "determine" is a verb, and "for" should not precede a base verb.
- (c) "to determined if the patience is" ✗ (Incorrect)
 - "To determined" is incorrect; it should be "to determine" (infinitive form).
 - "Patience" (धैर्य) is incorrect; the correct word is "patient" (रोगी).
- (d) "to determine either the patient is" ✗ (Incorrect)
 - "Either" is incorrect here; "either" is used when presenting two choices (e.g., "either A or B").
- (e) "No replacement required" ✗ (Incorrect)
 - The original phrase is incorrect because "only if" is unnecessary and disrupts the sentence flow.

Final Corrected Sentence:

"Doctors dealing with head injuries ask certain questions to determine if the patient is fully oriented." ✓

S93. Ans.(c)

Sol. Correct Answer: (c) "were in agreement that"

Grammatical Errors in the Highlighted Phrase:

1. Incorrect subject-verb agreement ("was" → "were")

- "The committee members" is plural, so the verb should be "were" instead of "was".
- "Was" is singular, which does not match the plural noun "members."

2. Correct preposition ("in agreement that")

- "In agreement that" is the correct phrase to indicate consensus.

Analysis of Each Option:

- (a) "were in agreement too" ✗ (Incorrect)
 - "Were" is correct for plural "members," but "too" is incorrect here. "Too" means "also" and does not fit the sentence structure.
- (b) "was in agreement to" ✗ (Incorrect)
 - "Was" is incorrect because "members" is plural and requires "were."
 - "In agreement to" is also incorrect; the correct phrase is "in agreement that."

- (c) "were in agreement that" ✓ (Correct)
 - "Were" correctly agrees with the plural subject "members."
 - "In agreement that" correctly expresses consensus.
- (d) "was agree that" ✗ (Incorrect)
 - "Was agree" is grammatically incorrect; "was" should be followed by "agreed," not "agree."
 - The correct phrase should be "was in agreement that" (if the subject were singular).
- (e) "No replacement required" ✗ (Incorrect)
 - The original sentence is incorrect due to the plural subject using the singular verb "was."

Final Corrected Sentence:

"The committee members were in agreement that new safety protocols needed to be implemented immediately." ✓

S94. Ans.(d)

Sol. Correct Answer: (d) "The second dose of the approved vaccine is recommended to be administered four to six weeks apart." ✓

Explanation of Each Sentence:

(a) "Prime Minister handed away the indigenous main battle tank Arjun Mk-1A to the Army." ✗ (Incorrect)

Error: Incorrect phrasal verb ("handed away")

- "Hand away" is incorrect because it does not mean to officially transfer something.
- The correct phrase should be "handed over", which means to formally give something to someone.

Corrected Sentence:

"The Prime Minister handed over the indigenous main battle tank Arjun Mk-1A to the Army." ✓

(b) "Mr. Trump's second impeachment trial was short than his first." ✗ (Incorrect)

Error: Incorrect comparative form ("short than")

- "Short" cannot be used in comparisons with "than."
- Comparative adjectives must use "-er" or "more" + adjective before "than".
- The correct form is "shorter than."

Corrected Sentence:

"Mr. Trump's second impeachment trial was shorter than his first." ✓

(c) "Rescue operations are on progress at the hydropower station which was ravaged by the flood." ✗ (Incorrect)

Error: Incorrect preposition ("on progress")

- "On progress" is incorrect.
- The correct phrase is "in progress," which means that something is currently happening.

Corrected Sentence:

"Rescue operations are in progress at the hydropower station which was ravaged by the flood." ✓

(d) "The second dose of the approved vaccine is recommended to be administered four to six weeks apart." ✓ (Correct)

- "The second dose" (singular) correctly matches with "is recommended."
- "To be administered" is correctly used in the passive form.
- "Four to six weeks apart" is correct in expressing the time interval between doses.

Since this sentence has no grammatical or contextual errors, it is the correct answer. ✓

Final Answer: (d) "The second dose of the approved vaccine is recommended to be administered four to six weeks apart." ✓

S95. Ans.(a)

Sol. Correct Answer: (a) "Protesters at the border protest site held a candlelight march on Sunday evening." ✓

Explanation of Each Sentence:

(a) "Protesters at the border protest site held a candlelight march on Sunday evening." ✓
(Correct)

- This sentence is **grammatically and contextually correct**.
- "Held" (past tense) correctly matches the subject "Protesters."
- The phrase "a candlelight march" is correctly structured.

Since this sentence **has no grammatical errors**, it is the correct answer. ✓

(b) "A student was arrested for alleged injecting a solution on a few underprivileged children." ✗ (Incorrect)

Errors:

1. **Incorrect word form ("alleged injecting")**
 - "Alleged" (adjective) should modify a noun, but "injecting" is a verb.
 - The correct phrase should be "allegedly injecting" (adverb + verb).
2. **Incorrect preposition ("on" instead of "into")**
 - Solutions are injected "into" a person, not "on" them.
 - The correct phrase should be "injecting a solution into a few underprivileged children."

Corrected Sentence:

"A student was arrested for allegedly injecting a solution into a few underprivileged children." ✓

(c) "A man has been arrested for allegedly indulging in illegally sale of DDA plots." ✗ (Incorrect)

Errors:

1. **Incorrect phrase ("illegally sale")**
 - "Illegally" (adverb) should modify a verb, but "sale" is a noun.
 - The correct form should be "illegal sale" (adjective + noun).

Corrected Sentence:

"A man has been arrested for allegedly indulging in the illegal sale of DDA plots." ✓

(d) "The mahapanchayats has emerged as new rallying points for the agitating farmers after Republic Day." ✗ (Incorrect)

Errors:

1. **Incorrect subject-verb agreement ("has emerged")**
 - "Mahapanchayats" is plural, so it should take "have," not "has."
2. **Missing article ("as new" → "as a new")**
 - "New rallying points" is plural, so "a" is unnecessary.
 - If singular, it should be "as a new rallying point," but here "points" is plural.

Corrected Sentence:

"The mahapanchayats have emerged as new rallying points for the agitating farmers after Republic Day." ✓

Final Answer: (a) "Protesters at the border protest site held a candlelight march on Sunday evening." ✓

S96. Ans.(d)

Sol. Correct Answer: (d) "Twitter restored access to many of the withheld accounts." ✓

Explanation of Each Sentence:

(a) "Two farmers were washed away in the floodwaters while trying to save its crops in Solapur district of Maharashtra." ✗ (Incorrect)

Errors:

1. Incorrect pronoun ("its" instead of "their")

- "Farmers" is plural, so the correct possessive pronoun should be "their," not "its" (which is used for singular or non-human subjects).

Corrected Sentence:

"Two farmers were washed away in the floodwaters while trying to save their crops in Solapur district of Maharashtra." ✓

(b) "The Centre should work on furnishing efficacy data on Covaxin as well as improving public confident." ✗ (Incorrect)

Errors:

1. Incorrect word form ("confident" instead of "confidence")

- "Confident" is an adjective, but a noun is required here.
- The correct word is "confidence" (which means trust or belief).

Corrected Sentence:

"The Centre should work on furnishing efficacy data on Covaxin as well as improving public confidence." ✓

(c) "Relations among India and China suffered a dramatic setback following the violation by China." ✗ (Incorrect)

Errors:

1. Incorrect preposition ("among" instead of "between")

- "Between" is used for two entities, whereas "among" is used for more than two.
- Since the sentence refers to India and China (only two nations), "between" should be used instead of "among".

Corrected Sentence:

"Relations between India and China suffered a dramatic setback following the violation by China." ✓

(d) "Twitter restored access to many of the withheld accounts." ✓ (Correct)

- This sentence is grammatically and contextually correct.
- "Restored access" correctly means "gave back access."
- "Withheld accounts" is correctly structured.

Since this sentence has no grammatical or contextual errors, it is the correct answer. ✓

Final Answer: (d) "Twitter restored access to many of the withheld accounts." ✓

S97. Ans.(d)

Sol. Correct Answer: (d) "The Party has put up a good show in the second phase of the panchayat elections." ✓

Explanation of Each Sentence:

(a) "Facebook has not complied fully with the Indian government statutory orders." ✗ (Incorrect)

Errors:

1. **Missing apostrophe in "government statutory orders"**

- "Government statutory orders" is incorrect because "government" should be possessive.
- The correct phrase is "government's statutory orders" to indicate that the orders belong to the government.

Corrected Sentence:

"Facebook has not complied fully with the Indian government's statutory orders." ✓

(b) "Today, India completes nearly four weeks till it began administering the two COVID-19 vaccines." ✗ (Incorrect)

Errors:

1. **Incorrect conjunction ("till" instead of "since")**

- "Till" means "up to a certain time" and does not work in this context.
- The correct word should be "since," which indicates the starting point of an ongoing action.

Corrected Sentence:

"Today, India completes nearly four weeks since it began administering the two COVID-19 vaccines." ✓

(c) "Researchers have discover three fossils of the earliest known living animal." ✗ (Incorrect)

Errors:

1. **Incorrect verb form ("discover" instead of "discovered")**

- "Have" requires the past participle form, which is "discovered," not "discover" (base form).

2. **Incorrect singular noun ("animal" instead of "animals")**

- "Three fossils" refer to multiple animals, so "animal" should be plural ("animals").

Corrected Sentence:

"Researchers have discovered three fossils of the earliest known living animals." ✓

(d) "The Party has put up a good show in the second phase of the panchayat elections." ✓

(Correct)

- This sentence is grammatically and contextually correct.
- "Has put up" correctly follows present perfect tense.
- "A good show" is a valid phrase.

Since this sentence has no grammatical or contextual errors, it is the correct answer. ✓

Final Answer: (d) "The Party has put up a good show in the second phase of the panchayat elections." ✓

S98. Ans.(b)

Sol. Correct Answer: (b) BAC

Meanings of the words:

1. **Concerns** (चिंताएँ / मुद्दे) – Worries or issues related to something.
2. **Dependence** (निर्भरता / आश्रयता) – The state of relying on something for support or survival.
3. **Environmental** (पर्यावरणीय / प्राकृतिक से संबंधित) – Related to nature or the ecosystem.

Why (b) BAC is correct?

Incorrect placement in the original sentence:

- "The country's concerns on fossil fuels has raised dependence about environmental sustainability."
- The phrase "concerns on fossil fuels" is incorrect; it should be "dependence on fossil fuels."

- "Raised dependence about environmental sustainability" is incorrect; it should be "raised concerns about environmental sustainability."

Corrected sentence:

"The country's dependence on fossil fuels has raised concerns about environmental sustainability." ✓

S99. Ans.(c)

Sol. Correct Answer: (c) CBA

Meanings of the words:

1. **Impact** (प्रभाव / असर) – The effect or influence of something.
2. **Generate** (उत्पन्न करना / बनाना) – To produce or bring into existence.
3. **Aspire** (महत्वाकांक्षा रखना / कुछ बनने की इच्छा रखना) – To strongly desire or aim for something.

Why (c) CBA is correct?

Incorrect placement in the original sentence:

- "Many young entrepreneurs impact to build innovative businesses..." ✗
 - "Impact" is a noun in this context, but the sentence structure requires a verb.
 - "Aspire" (verb) is the correct word here because entrepreneurs **aspire to build businesses**.
- "That not only generate profit but also create a positive aspire on society..." ✗
 - "Aspire" is incorrect here because it is a verb, but we need a noun.
 - "Impact" is the correct word because businesses create a **positive impact** on society.

Corrected sentence:

"Many young entrepreneurs aspire to build innovative businesses that not only generate profit but also create a positive impact on society and the environment." ✓

S100. Ans.(a)

Sol. Correct Answer: (a) CBA

Meanings of the words:

1. **Tiring** (थकाने वाला / श्रान्तिदायक) – Something that causes fatigue or exhaustion.
2. **Preferable** (अधिक वांछनीय / उत्तम विकल्प) – More desirable or better in comparison to another option.
3. **Traveling** (यात्रा करना / सफर करना) – The act of moving from one place to another.

Why (a) CBA is correct?

Incorrect placement in the original sentence:

- "For long journeys, tiring by train is often preferable to driving..." ✗
 - "Tiring by train" is incorrect because "**tiring**" is an adjective that should describe "traveling" rather than standing alone.
- "Because it is more comfortable and less traveling." ✗
 - "Less traveling" is incorrect; it should be "**less tiring**" because we are comparing the exhaustion level.

Corrected sentence:

"For long journeys, traveling by train is often preferable to driving because it is more comfortable and less tiring." ✓

S101. Ans.(b)

Sol. The pattern of the series:

$$3, \quad 8, \quad 31, \quad 154, \quad 923, \quad 6460$$

$$\times 3 - 1 \quad \times 4 - 1 \quad \times 5 - 1 \quad \times 6 - 1 \quad \times 7 - 1$$

S102. Ans.(a)

Sol. The pattern of the series:

$$5, \quad 25, \quad 12.5, \quad 62.5, \quad 31.25, \quad 156.25$$

$$\times 5 \quad \div 2 \quad \times 5 \quad \div 2 \quad \times 5$$

S103. Ans.(d)

Sol. The pattern of the series:

$$7, \quad 296, \quad 657, \quad 1098, \quad 1627, \quad 2252$$

$$289 \quad 361 \quad 441 \quad 529 \quad 625$$

S104. Ans.(d)

Sol. The pattern of the series:

$$18, \quad 82, \quad 207, \quad 423, \quad 766, \quad 1278$$

$$64 \quad 125 \quad 216 \quad 343 \quad 512$$

S105. Ans.(a)

Sol. The pattern of the series:

$$4.5, \quad 8, \quad 23, \quad 91, \quad 454, \quad 2723$$

$$\times 2 - 1 \quad \times 3 - 1 \quad \times 4 - 1 \quad \times 5 - 1 \quad \times 6 - 1$$

S106. Ans.(b)

Sol. The pattern of the series:

$$360, \quad 180, \quad 90, \quad 45, \quad 22.5, \quad 11.25$$

$$\div 2 \quad \div 2 \quad \div 2 \quad \div 2 \quad \div 2$$

Sol. (107-111)

Let the valid votes in B and invalid votes in A be $5x$ and $3x$ respectively.

The valid votes in C = $10 + 5x$

The valid votes in A = $\frac{3x}{3} \times 7 = 7x$

The invalid votes in C = $\frac{7x}{5}$

The invalid vote in B = $120 - 5x$

Given, $5x + 10 - \frac{7x}{5} = 64$

$3.6x = 54$

$x = 15$

Towns	Valid votes	Invalid votes
A	105	45
B	75	45
C	85	21

S107. Ans.(c)

Sol. Required percentage = $\frac{45}{75} \times 100 = 60\%$

S108. Ans.(c)

Sol. Required sum = $105 + 75 + 85 = 265$

S109. Ans.(d)

Sol. Required difference = $(75+85) - (105+45) = 10$

S110. Ans.(e)

Sol. Required percentage = $\frac{105-21}{105} \times 100 = 80\%$

S111. Ans.(a)

Sol. Total votes cast in D = $\frac{3}{5} \times (105 + 45) = 90$

Invalid votes in D = $\frac{80}{100} \times 45 = 36$

Valid votes in D = $90 - 36 = 54$

Required ratio = $54 : 85$

Solutions (112-114):

For A

5 jackets in 2.5 hours

2 jackets in 1 hours

16 jackets in 8 hours

For C

5 jackets in 2 hours

2.5 jackets in 1 hours

10 jackets in 4 hours

For B

Total jackets produce in a day = $(16 + 10) - 6 = 20$

5 jackets in X hours

20 jackets in 6 hours

So, 4 jackets in 1.5 hours

$X = 1.5$

S112. Ans.(a)

Sol. $X = 1.5$

S113. Ans.(d)

Sol. Required difference = $16 - 10 = 6$

S114. Ans.(b)

Sol. Given, 20 jackets in 6 hours

So, 10 jackets in 3 hours

S115. Ans.(b)

Sol. $\sqrt{1681} + \frac{1}{6}$ of 12 = ? - 20% of 100

$41 + 2 = ? - 20$

? = 63

S116. Ans.(c)

Sol. $18^2 \times 4 - 30\%$ of 400 = ? $\times 12$

$1296 - 120 = ? \times 12$

$98 = ?$

S117. Ans.(c)

Sol. $123 + 980 - 90 - 540 = ?$

? = 473

S118. Ans.(e)

Sol. $\frac{190}{19} \times \frac{290}{29} = ? + 45\%$ of 200

$10 \times 10 = ? + 90$

$10 = ?$

S119. Ans.(d)

Sol. 12% of 300 + $\frac{2}{9}$ of 45 = ?

$36 + 10 = ?$

$46 = ?$

S120. Ans.(b)

Sol. $\sqrt{45 \times 2 - 9} = ? - 25\%$ of 400

$9 = ? - 100$

$109 = ?$

S121. Ans.(d)

Sol. I. $x^2 - 21x + 80 = 0$

$x^2 - 16x - 5x + 80 = 0$

$x = 16, 5$

II. $y^2 - 34y + 288 = 0$

$y^2 - 16y - 18y + 288 = 0$

$y = 16, 18$

So, $x \leq y$

S122. Ans.(e)

Sol. I. $x^2 - 26x + 105 = 0$

$x^2 - 21x - 5x + 105 = 0$

$x = 21, 5$

II. $y^2 - 20y + 75 = 0$

$y^2 - 15y - 5y + 75 = 0$

$y = 15, 5$

So, no relation can be established between x and y

S123. Ans.(e)

Sol. I. $2x^2 - 17x + 33 = 0$

$2x^2 - 6x - 11x + 33 = 0$

$x = 5.5, 3$

II. $3y^2 - 17y + 24 = 0$

$3y^2 - 9y - 8y + 24 = 0$

$y = 8/3, 3$

So, no relation can be established between x and y

S124. Ans.(a)

Sol. I. $5x^2 + 6x - 95 = 0$

$5x^2 + 25x - 19x - 95 = 0$

$x = -5, 19$

II. $y^2 + 16y + 63 = 0$

$y^2 + 7y + 9y + 63 = 0$

$y = -7, -9$

So, $x > y$

S125. Ans.(b)

Sol. I. $x^2 - 17x - 3x + 51 = 0$

$x = 17, 3$

II. $y^2 - 5y + 6 = 0$

$y^2 - 2y - 3y + 6 = 0$

$y = 2, 3$

So, $x \geq y$

S126. Ans.(a)

Sol. Quantity of water = $50 \times \frac{16}{100} = 8$ litres

Quantity of milk = $50 - 8 = 42$ litres

ATQ,

$$\frac{42+X}{8} = \frac{9}{1}$$

$42 + X = 72$

$X = 30$

S127. Ans.(b)

Sol. ATQ,

$$2x \times \left(\left(1 + \frac{10}{100} \right)^3 - 1 \right) - x \times \left(\left(1 + \frac{10}{100} \right)^2 - 1 \right) = 9040$$

$$\frac{662x}{1000} - \frac{21x}{100} = 9040$$

$$662x - 210x = 9040 \times 1000$$

$$452x = 9040 \times 1000$$

$$x = 20000$$

S128. Ans.(a)

Sol. $3A - 4B = -2$ (i)

And

$$\frac{6B+4A}{9} = 6$$

$$4A + 6B = 54$$

$$2A + 3B = 27$$
 ..(ii)

From (i) & (ii)

$$B = 5 \text{ And } A = 6$$

Quantity I. The value of A = 6

Quantity II. The value of B = 5

So, Quantity I > Quantity II

S129. Ans.(b)

Sol. Profit share ratio = $400 \times t : 500 \times (t - 2) : 1000 \times (t + 4) = 4t : 5(t-2) : 10(t+4)$

ATQ,

$$\frac{4t}{5t-10} = \frac{16}{15}$$

$$60t = 80t - 160$$

$$20t = 160$$

$$t = 8$$

$$\text{Required value} = 8^2 = 64$$

S130. Ans.(d)

Sol. Let the first series be $A + 7, A + 9, A + 11$ so on

Let the second series be $A, A + 2, A + 4$so on

Since the difference between the first term of both the series is 7 and both series contains equal numbers

So, the difference between P and Q = 7

S131. Ans.(b)

Sol. Let the cost price of B be $8x$, then marked price of B will be $15x$

Marked price of A = $15x$

$$\text{Cost price of A} = \frac{2}{3} \times 15x = 10x$$

$$\text{Selling price of A} = \frac{120}{100} \times 10x = 12x$$

ATQ,

$$12x - 8x = 400$$

$$x = 100$$

$$15x = \text{Rs } 1500$$

S132. Ans.(e)

Sol. Let the milk in the container A be X liters

Water in the container A = (30 - X) liters

ATQ,

$$\frac{\left(\frac{X+10}{2}\right)}{\frac{30-X}{2}+\frac{5}{2}} = \frac{2}{1}$$

$$X + 10 = 60 - 2X + 10$$

$$3X = 60$$

$$X = 20$$

Required difference = 20 - 10 = 10 liters

S133. Ans.(b)

Sol. Total work = LCM (20, 60, 40) = 120 units

Efficiency of A, B and C together = $\frac{120}{20} = 6 \text{ units/day}$

Efficiency of A = $\frac{120}{60} = 2 \text{ units/day}$

Efficiency of B = $\frac{120}{40} = 3 \text{ units/day}$

Efficiency of C = 6 - 2 - 3 = 1 units/day

Required days = $\frac{1}{4} \times \frac{120}{2+1} = \frac{30}{3} = 10 \text{ days}$

S134. Ans.(e)

Sol. Let the speed of current be x km/hr.

The speed of boat in = 6x km/hr.

ATQ,

$$\frac{D}{6x+x} = 2T \dots\dots(i)$$

$$\frac{D-400}{6x} = \frac{2T}{2}$$

$$\frac{D-400}{6x} = T \dots\dots(ii)$$

Dividing (i) and (ii)

$$\frac{\frac{D}{6x+x}}{\frac{D-400}{6x}} = \frac{2T}{T}$$

$$\frac{D}{7} \times \frac{6}{(D-400)} = \frac{2}{1}$$

$$6D = 14D - 5600$$

$$8D = 5600$$

$$D = 700$$

S135. Ans.(a)

Sol. Let the speed of train A be p meter/sec.

Speed of train B be q meter/sec.

ATQ,

$$\frac{X}{p} = 15 \dots (1)$$

$$\frac{Y}{q} = 5 \dots (2)$$

$$\frac{X+Y}{p} = 25$$

$$\frac{X}{p} + \frac{Y}{p} = 25$$

Putting from (1)

$$\frac{Y}{p} = 25 - 15$$

$$\frac{Y}{p} = 10 \dots(3)$$

Dividing (1) from (3)

$$\frac{\frac{X}{p}}{\frac{Y}{p}} = \frac{15}{10}$$

$$X : Y = 3 : 2$$

S136. Ans.(b)

Sol. Let the present age of Suruchi be $5x$ years.

$$\text{Sheetal's present age} = 5x \times \frac{140}{100} = 7x \text{ years}$$

ATQ,

$$7x + 5 + 5x + 5 = 82$$

$$x = 6$$

$$\text{Required difference} = (7 \times 6 - 4) - (5 \times 6 - 4) = 12 \text{ years}$$

S137. Ans.(a)

Sol.

Let monthly income of Rajat be Rs. $100x$

Remaining amount after spending on rent, transportation and clothing

$$= 100x \times \frac{75}{100} \times \frac{80}{100} \times \frac{90}{100} = 54x$$

$$\text{Amount divided between brother and sister} = \frac{54x}{2} = 27x$$

ATQ,

$$27x - 25x = 1600$$

$$x = 800$$

So, monthly income of Rajat = Rs. 80000

S138. Ans.(e)

Sol. Let the first and second number be x and y respectively

From I. $0.45x = 0.72y$

$$\frac{x}{y} = \frac{8}{5}$$

From II. $\frac{x+y}{2} + 120 = y$

From I and II. Let the first number = $8y$ and second number = $5y$

$$6.5y + 120 = 8y$$

$$y = 80$$

$$\text{Required difference} = 640 \times \frac{60}{100} - 400 \times \frac{60}{100} = 144$$

So, Both I and II together are sufficient

S139. Ans.(a)

Sol. From I. Relative speed of two train = $(80 - 64) = 16$ km/hr

$$= 16 \times \frac{5}{18} = \frac{40}{9} \text{ m/s}$$

$$\text{Required time} = \frac{(60+80) \times 9}{40}$$

$$= \frac{140}{40} \times 9$$

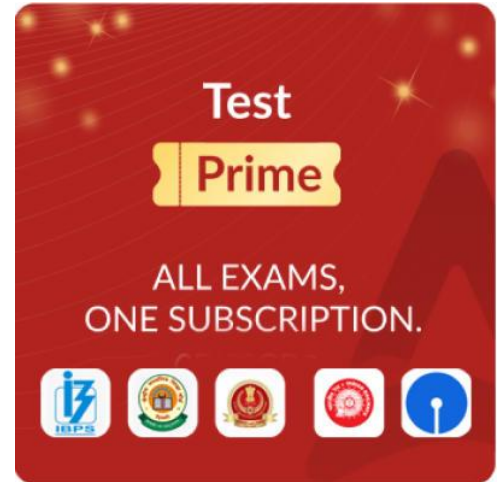
$$= 31.5 \text{ sec}$$

From II. Speed of second train = $80 \times \frac{2}{9} = \frac{160}{9}$

$$\text{So, speed of train A} = \frac{160}{9} \times \frac{5}{4} = \frac{200}{9}$$

$$\text{Required time} = \frac{140 \times 9}{40} = 31.5 \text{ seconds}$$

Either I alone or II alone



S140. Ans.(d)

Sol. Let the radius of the circle and length of the side of equilateral triangle be 'r' and 'a' respectively.

From I. $\frac{(\pi r)^2}{\frac{\sqrt{3}}{4}(a)^2} = \frac{16\pi}{\sqrt{3}}$

$$\frac{(r)^2}{(a)^2} = \frac{4}{1}$$

$$\frac{r}{a} = \frac{2}{1} = 2:1$$

From II. Let the radius of the circle and length of the side of equilateral triangle be 'r' and 'a' respectively.

$$\frac{2\pi r}{3a} = \frac{4\pi}{3}$$

$$r : a = 2 : 1$$

Either I alone or II alone

