

IBPS PO Pre 2025 Memory Based Paper Based on 23rd August 1st Shift

Directions (1-3): Read the given instructions carefully and answer the related questions:

A certain number of persons are sitting in a row facing north.

Three persons sit between A and B. C sits second to the right of B. D sits fifth to the left of C. Two persons sit between D and E. The number of persons sit between D and C is one more than the number of persons sit between D and F. No one sits to the left of F. The position of A with respect to F is same as the position of C with respect to G. As many persons sit to the left of F as to the right of C.

Q1. How many persons sit between E and G?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) More than four

Q2. Who sits at the left end of the row?

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

Q3. How many persons sit between F and G?

- (a) 9
- (b) 13
- (c) 12
- (d) None of these
- (e) 10

Q4. How many pairs of letters in the word FORTITUDE have the same number of letters between them as in the English alphabet?

- (a) 1
- (b) 2
- (c) 3
- (d) #
- (e) @

Q5. How many pair of digits can be formed in the number 73915243, which have same number of digits between them as in the number series (both forward and backward direction)?

- (a) None
- (b) Two
- (c) Three
- (d) More than three
- (e) One



Directions (6-8): Study the information carefully and answer the questions given below.

Eight persons A, B, C, D, E, F, G and H are members of a three-generation family, with no single parent. G is the daughter-in-law of D. B has no daughter. H is the aunt of A. G is the sister-in-law of C. C is married member of the family. B is the grandfather of A. C and A are of opposite gender. E is the brother of F and has no child.

Q6. How is G related to E?

- (a) Wife
- (b) Sister
- (c) Sister-in-law
- (d) Mother
- (e) Can't be determined

Q7. How many children does D have?

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

Q8. Who are the mother and father of A?

- (a) H and D
- (b) A and B
- (c) D and C
- (d) C and B
- (e) Can't be determined

Directions (9-10): In these questions, the relationship between different elements is shown in the statement. The statements are followed by two conclusions. Study the statements based on the given statement and select the appropriate answer.

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or II is true
- (d) If both conclusions I and II are true
- (e) If neither conclusion I nor II is true

Q9. Statements: $O > S = G \leq R \geq K; L \leq R = P; T < J = P$

Conclusions:

- I. $S < L$
- II. $J \geq G$

Q10. Statements: $Q \leq M > D > E = T; F = G \geq H < C < T \geq A$

Conclusions:

- I. $A \leq M$
- II. $F > Q$

Q11. Statements: $Z = X < Y > O \leq W, P \geq Q = R < S > W$

Conclusions:

I. $X > R$

II. $Z \leq Q$

Directions (12-16): Study the following information carefully and answer the questions given below:

Six persons – A, B, C, D, E and F – were born in different months – April, July, and September – on two different dates, i.e., 9th and 26th of the same year. Each person likes a different colour – Red, Blue, Pink, Green, White, and Yellow. All the information is not necessarily used in the same order

Two persons were born on 9th July, one before F on an odd date and one after F. Two persons were born on 26th April, one before C. E was born on 9th July. The one who likes pink was born on 26th April. The one who likes yellow was born on 9th July.

Q12. Who was born on 9th July?

- (a) C
- (b) The one who likes pink
- (c) F
- (d) The one who likes yellow
- (e) D

Q13. Which colour does F like?

- (a) B – Green
- (b) C – Red
- (c) F – White
- (d) E – Green
- (e) D – Yellow

Q14. How many persons were born on 9th July?

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

Q15. Who among the following likes white color?

- (a) The one who was born four persons before B
- (b) C
- (c) A
- (d) The one who was born on 26th September
- (e) None of these

Q16. Which of the following statements is/are incorrect?

I. C was born before D.

II. No person was born between F and the one who likes pink color.

III. E was born in the month having odd number of days and likes green color.

(a) Both II and III

(b) Only I

(c) Both I and III

(d) Only III

(e) All I, II and III

Directions

Six persons

Coupe, and C

The one who

as after the C

Hatchback a

Coupe was

bought before

Directions:

, Limousine,

car before F

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ly before A.

vertible was

Q17. Who bought the Limousine?

(a) E

(b) B

(c) C

(d) D

(e) A

Q18. Who bought the car three persons after that person who bought the car immediately before D?

(a) C

(b) B

(c) F

(d) A

(e) None of these

Q19. If A is related to Hatchback and in the same way E is related to limousine then, C is related to which type of car?

(a) Coupe

(b) Convertible

(c) SUV

(d) Sedan

(e) None of these

Q20. The number of cars bought between E and the one who purchased Hatchback is one more than the number of cars bought after the one who purchased ____.

- (a) Convertible
- (b) SUV
- (c) Coupe
- (d) Limousine
- (e) Sedan

Q21. Sedan was purchased by who among the following person?

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

Directions

conclusions

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known fact

(a) If only co

(b) If only co

(c) If either

(d) If neither

(e) If both co

Q22. Statem

Only a few c

Some court

No allow is r

Conclusions

I. Some club being allow is a possibility

II. Some court are not revenue.

Q23. Statements:

Only a few Edition is investors

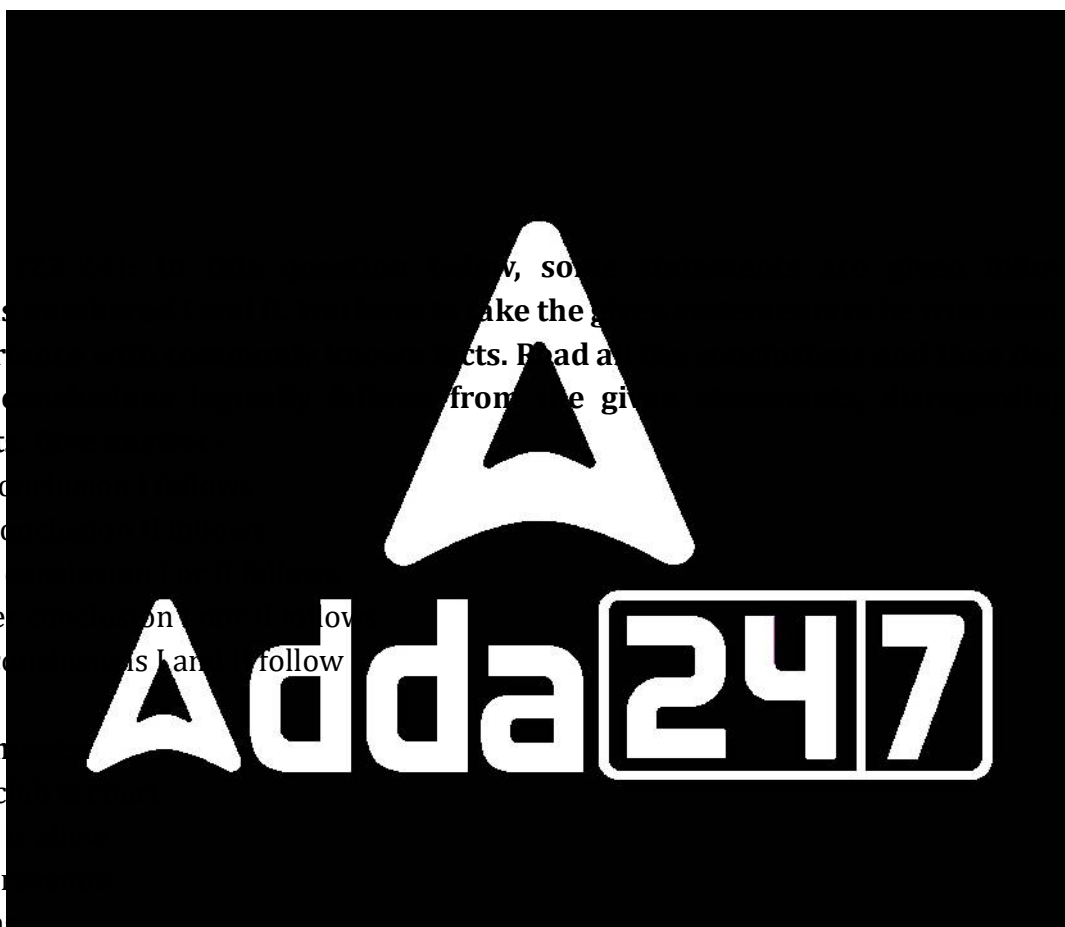
All investors are verdict.

No verdict is affect

Conclusions:

I. No edition is affect

II. All investors being affect is a possibility



Q24. Statements:

All skipper is win

Some win is player

Only a few player is hear

Conclusions:

I. All skipper being hear is a possibility

II. No win is hear

Q25. Find the odd one out?

(a) JLMP

(b) ACDG

(c) EGHK

(d) LNOR

(e) QSTU

Directions

Seven persons

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the sum

elow:

1973, 1978,

calculation).

e of A and G

Q26. Who a

(a) G

(b) B

(c) E

(d) A

(e) C

Q27. How m

(a) Two

(b) More than four

(c) Four

(d) One

(e) Three

Q28. What is the difference between the age of C and D?

(a) 12 years

(b) 10 years

(c) 24 years

(d) 37 years

(e) 38 years

Q29. Who among the following is the oldest person?

- (a) E
- (b) B
- (c) G
- (d) D
- (e) None of these

Q30. What is the age of G?

- (a) 37 years
- (b) 24 years
- (c) 47 years
- (d) 52 years
- (e) 66 years

Directions

Fourteen people are sitting in two rows of seven. A, B, C, D, E, F and G are sitting in row-1 and H, I, J, K, L, M and N are sitting in row-2. All are facing south. V and W are sitting in the same position in row-2 and Q sits two places to the right of V. E is the one who sits immediately to the left of the one who sits third from the right end of row 2. The number of persons sitting to the left of G is equal to the number of persons sitting to the right of G. One of the persons sitting in row-2 does not sit in the same position as the one who sits second from the right end of row-1.

Q31. Who is sitting in the middle of the row?

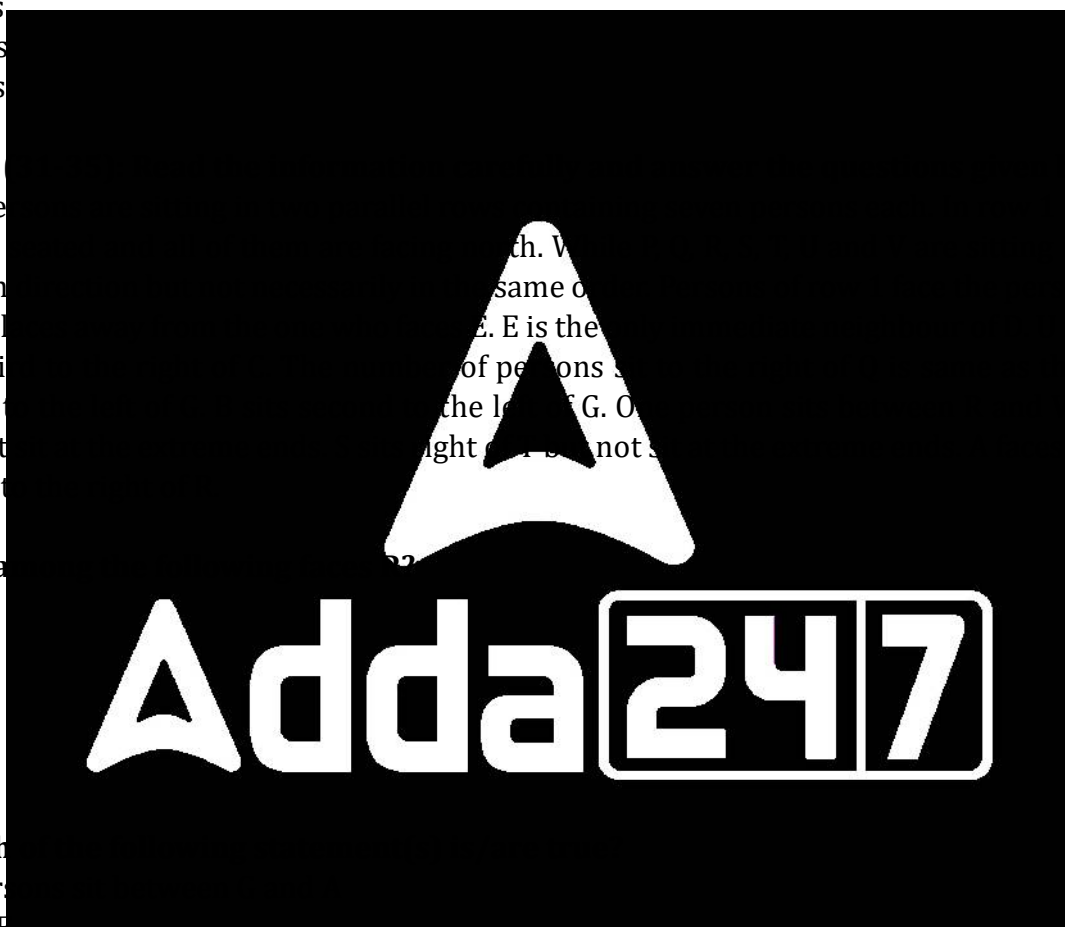
- (a) G
- (b) D
- (c) B
- (d) C
- (e) A

Q32. Which of the following is true?

- (a) Two persons are sitting in the middle of the row
- (b) U faces E
- (c) V sits left of R
- (d) C doesn't sit at extreme ends
- (e) All are true

Q33. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?

- (a) T
- (b) F
- (c) S
- (d) U
- (e) G



Q34. How many persons sit to the left of the one who faces S?

- (a) Two
- (b) More than four
- (c) Four
- (d) One
- (e) Three

Q35. Who among the following sits second to the right of the one who faces F?

- (a) V
- (b) T
- (c) R
- (d) Q
- (e) None of these

Directions

The concept of cloud kitchens, also known as virtual kitchens, has emerged as one of the fastest-growing trends in the food and service industry. These kitchens operate exclusively for delivery without a dine-in facility. The rise of cloud kitchens is driven by several factors, including the growing demand for convenience, the ability to operate in high-traffic areas, and the use of technology to streamline operations. As technology advances, the demand for cloud kitchens is expected to continue to grow.

One of the major advantages of cloud kitchens is their ability to reduce overhead costs. By eliminating the expenses of a dine-in space, such as rent, utilities, and décor, and by focusing resources on food quality and delivery logistics, cloud kitchens can operate more efficiently. This allows them to launch a new restaurant concept with lower initial investment and faster turnaround times.

The global market for cloud kitchens is impressive. In the United States, the market is projected to reach \$1.2 billion by 2025, up from \$0.5 billion in 2020. This growth has been driven by the popularity of food delivery apps, where cloud kitchens can focus on their core competency of food preparation and delivery. In the United States, the market is projected to reach \$1.2 billion by 2025, up from \$0.5 billion in 2020.

Beyond profit, cloud kitchens also offer a range of social and economic benefits. They provide a platform for entrepreneurs to launch their food businesses with lower barriers to entry. Additionally, they create jobs in food preparation, packaging, and logistics, contributing to the local economy. Cloud kitchens also offer a more sustainable food service option by reducing food waste and energy consumption.

Cloud kitchens represent a transformative shift in the food and service industry. They are cost-effective, scalable, and job-generating, making them vital for economic growth. Much of this work is quietly **done** _____, yet it strengthens multiple layers of the economy. However, this rapid growth has raised concerns. While governments have issued regulations concerning hygiene, licensing, and safety standards, many restaurants operating as cloud kitchens fail to comply strictly with these rules. The lack of regular inspections and the rush to meet demand often lead to corners being cut, raising questions about consumer safety and long-term sustainability.

In conclusion, cloud kitchens represent a transformative shift in the food and service industry. They are cost-effective, scalable, and job-generating, making them vital for economic growth. Yet, their true potential will only be realized when strict adherence to regulations ensures that quality and safety are never compromised.

Q36. What is the underlying reason cloud kitchens have enabled more entrepreneurs to enter the food business?

- (a) The emergence of global food trends requiring innovative business models.
- (b) The increase in food delivery app usage that encourages mass entry.
- (c) The substantial decrease in start-up and operational costs associated with running a food business.
- (d) The ability to access a wider consumer base without geographical limitations.
- (e) The availability of shared kitchen infrastructure and government subsidies in urban areas.

Q37. Which of the following statements is/are CORRECT according to the passage?

- (I) Technological tools and mobile apps have played a significant role in the adoption of cloud kitchens.
 - (II) Britain experienced a stagnant cloud kitchen market until 2023.
 - (III) Many cloud kitchens have emerged in urban areas.
- (a) Only (I)
 - (b) Both (I) and (II)
 - (c) Only (II)
 - (d) Both (II) and (III)
 - (e) All (I), (II), and (III)

Q38. Which of the following statements best explains the reason for the popularity of cloud kitchens?

- (a) A cloud kitchen provides a cost-effective solution for busy professionals who lack time to cook, leading to poor food quality.
- (b) A traditional chef-run kitchen can improve food quality and reduce costs.
- (c) A local food delivery service can provide faster kitchen services and reduce costs.
- (d) A delivery service can promote less-known cuisines and reduce costs.
- (e) A food service can provide a wider variety of food options and reduce costs.

Q39. What does the passage say about cloud kitchens in Britain?

- (a) They were established in 2018 due to a focus on food safety.
- (b) They grew five times larger in 2023 compared to earlier years.
- (c) They replaced all traditional restaurants by 2023.
- (d) They focus on providing a wider variety of food options.
- (e) They were established in 2018 due to a focus on food safety.

Q40. Which of the following statements is/are factually INCORRECT based on the passage?

- (I) The global rise of cloud kitchens has had little to no impact on auxiliary sectors such as food supply chains and packaging.
 - (II) In the United States, cloud kitchens are projected to contribute nearly \$27 billion to the economy by the year 2027 alone.
 - (III) One of the key reasons behind the proliferation of cloud kitchens is the substantial reduction in fixed operational costs.
- (a) Only (I)
 - (b) Both (I) and (II)
 - (c) Only (III)
 - (d) Both (I) and (III)
 - (e) All (I), (II), and (III)

Q41. Choose the most suitable phrase for the given blank.

- (a) in broad daylight
- (b) without permission
- (c) on live television
- (d) behind the scenes
- (e) under pressure

Q42. Choose the word that is grammatically and contextually most suitable to replace "**elusive**" as used in the passage:

- (a) Obvious
- (b) Achievable
- (c) Unattainable
- (d) Defining
- (e) Difficult

Q43. What is the meaning of the word "attained"?

- (a) Completed
- (b) Final
- (c) Avoided
- (d) Attained
- (e) Repeated

Q44. What is the meaning of the word "tap"?

- (a) Strike
- (b) Click
- (c) Extract
- (d) Control
- (e) Attach

Directions:

appropriate
the sentence

Q45. The doctor

- (a) modify
- (b) excuse
- (c) recruit
- (d) amplify
- (e) remove

Q46. The new technology promises to _____ the way we perform everyday tasks.

- (a) impede
- (b) acclaim
- (c) stagnate
- (d) deteriorate
- (e) augment

Q47. The athlete's rigorous training and unwavering determination _____ to their remarkable success.

- (a) contributed
- (b) detracted
- (c) underestimated
- (d) isolated
- (e) impeded

Q48. The new regulations aim to _____ fair competition among all market participants.

- (a) infringe
- (b) enforce
- (c) relinquish
- (d) constrain
- (e) fragment

Q49. The ex

- (a) scarcely
- (b) precious
- (c) strictly
- (d) hardly
- (e) mostly

Directions

- (A) Many people have taken extended vacations to unwind themselves.
- (B) Travel has always been a way to escape the pressures of daily life.
- (C) In today's fast-paced world, however, such a constant digital connection often leave individuals feeling overwhelmed.
- (D) Meeting new people, exploring unfamiliar cultures and disconnecting from your phone can rejuvenate the mind.
- (E) This shift in perspective has led to a growing awareness about mental well-being and the need for intentional breaks from technology.

Q50. Which

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

Q51. Which of the following is the SECOND sentence after rearrangement?

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

Q52. Which of the following is the THIRD sentence after rearrangement?

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

Q53. Which of the following is the FOURTH sentence after rearrangement?

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

Q54. Which

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

Directions (Q54-Q55) : In each question below, a sentence is given with four words or phrases highlighted. These four words or phrases are followed by options by options with the correct word or phrase to replace each of the highlighted words or phrases. The sentence given is to be read in the context of the passage. The correct combination of words that replace each of the highlighted words or phrases is to be chosen.

Q55. Be careful (A) the hot plate (B) the hot plate (C) the hot plate (D) the hot plate of the catch (D).

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

Q56. India is **system** (A) digitising its healthcare **rapidly** (B), and artificial intelligence (AI) offers a huge **transformation** (C) to super-charge this **opportunity** (D).

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

Q57. Astronomical (A) temperatures (B) are usually estimated from spectroscopic (C) measurements (D).

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

Q58. Growing (A) children in involving (B) and nurturing a few plants at home can open (C) up the magical (D) world of nature and science to them

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

Q59. Match the items in Column I with the items in Column II. Choose the correct combination.

COLUMN I	COLUMN II
A. The new organizational structure	D. Support users nationwide
B. Electric power plants	E. Perform better
C. Rising sea levels	F. Current score

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

Q60. A phrase has been given in the question and used in the sentences below. Identify the statements where the phrase has been used in a contextually and grammatically correct manner.
DARK HORSE

- (I) Nobody expected her to win the competition, but she turned out to be the **dark horse** of the event.
 - (II) The painter was a **dark horse**, known by few but admired once his work was revealed.
 - (III) The farmer bought a **dark horse** and a white cow from the village market.
- (a) Only (I)
 - (b) Only (II)
 - (c) Both (I) and (II)
 - (d) All of these
 - (e) Both (II) and (III)

Directions (61-65): The sentence is divided into four segments: (A), (B), (C), and (D). Identify the segment that contains a grammatical error. If the sentence is both grammatically and contextually correct, select “No error” as the correct answer.

Q61. The Prime Minister promised (A)/ to improving infrastructure (B)/ in rural districts by allocating (C)/ additional funds in the next budget. (D)

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

Q62. She enjoyed (A)/ the view of the more ancient ruins (C)/ of the city. (B) (D)

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

Q63. The company is rehearsing (B)/ a new song for the festival (C)/ next month. (D) (A)

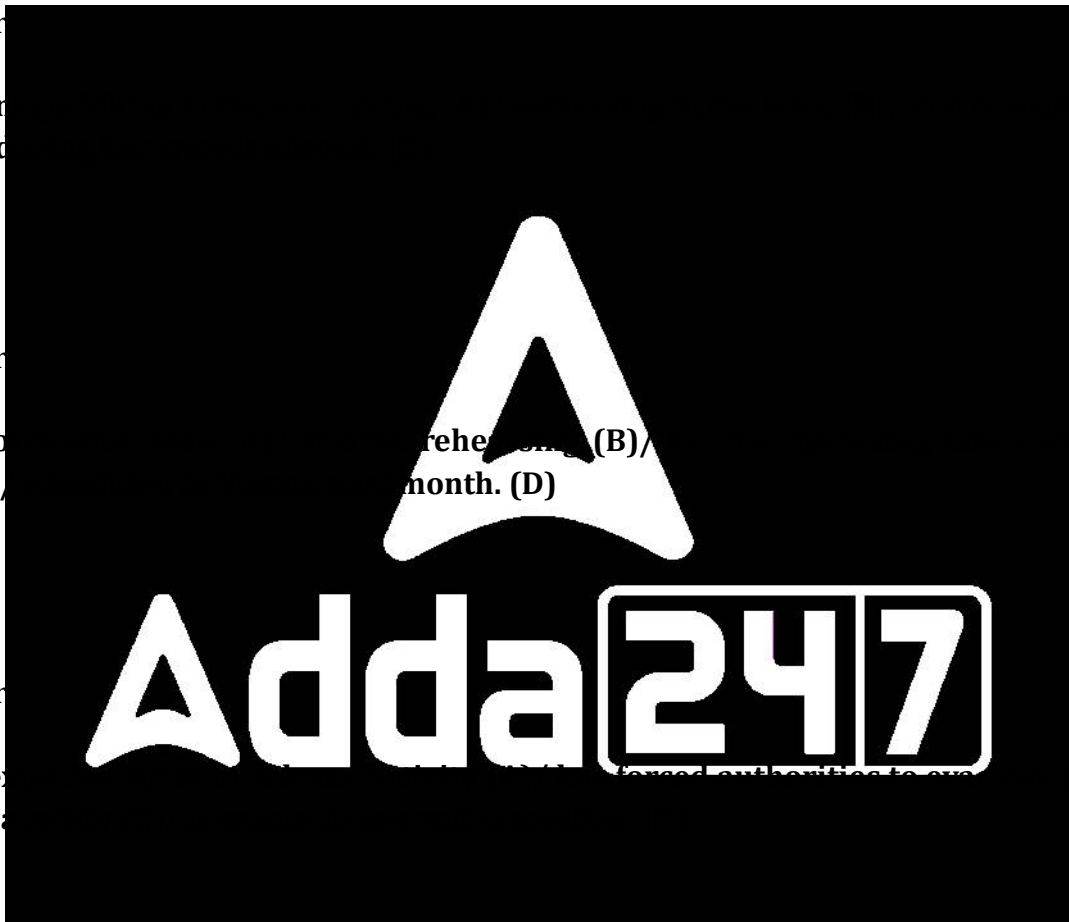
- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q64. A UNESCO World Heritage site (A)/ is located near the villages as well as the (B)/ nearby. (C) (D)

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

Q65. The ambassador (A)/ said the reports have (B)/ being examined carefully by his staff (C)/ before making any comment. (D)

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



Directions (66-69): In each question two equations number (I) and (II) are given. You should solve both the equations and mark appropriate answer.

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

Q66. I. $x^2 - 10x + 24 = 0$
II. $5y^2 - 16y + 12 = 0$

Q67. I. $2x^2 - 7x + 3 = 0$
II. $y^2 - 12y + 36 = 0$

Q68. I. $6x^2 - 17x + 12 = 0$
II. $10y^2 - 11y + 3 = 0$

Q69. I. $2x^2 + 5x + 2 = 0$
II. $2y^2 + 7y + 3 = 0$

Directions (70-72): In each question, a value comes in the place of question mark in the following questions.

Q70. $\frac{779.23}{13} + 12.5 \times 10 = ?$
(a) 187
(b) 121
(c) 169
(d) 147
(e) 177

Q71. $39.98\% \text{ of } 249.99 - 12.5 \times 10 = ?$
(a) 6
(b) 9
(c) 5
(d) 8
(e) 4

Q72. $20.99^2 - 24.97\% \text{ of } 220.02 - ? = 131.13$
(a) 225
(b) 125
(c) 255
(d) 145
(e) 290



Q73. $24.21^2 + 12.16 = ? \times (49.99\% \text{ of } 55.98)$

- (a) 25
- (b) 29
- (c) 21
- (d) 17
- (e) 33

Directions (74-79): The table given below shows the total number of red and blue balls in five different bags (A, B, C, D & E). it also shows the difference between red and blue balls and percentage of red balls with respect to total balls.

Total bags	Difference between red and blue	Percentage of red ball with respect to total
A		
B		
C		
D		
E		

Q74. The number of red balls in A and E together is _____.

- (a) 230
- (b) 220
- (c) 240
- (d) 280
- (e) 260

Q75. The sum of the number of red balls in B and D is _____.

- (a) 55
- (b) 53
- (c) 50
- (d) 58
- (e) 56

Q76. Find the ratio of the number of red balls in A to the number of blue balls in A.

- (a) 23:10
- (b) 23:11
- (c) 23:3
- (d) 18:19
- (e) 21:22

Q77. Find the average number of red balls in B, D and E.

- (a) 355
- (b) 353
- (c) 350
- (d) 389
- (e) 386

Q78. The number of balls in bag F is 25% more than red balls in E and the ratio of red balls in A and blue balls in F is 2:1. Find the red balls in F.

- (a) 685
- (b) 680
- (c) 630
- (d) 620
- (e) 600

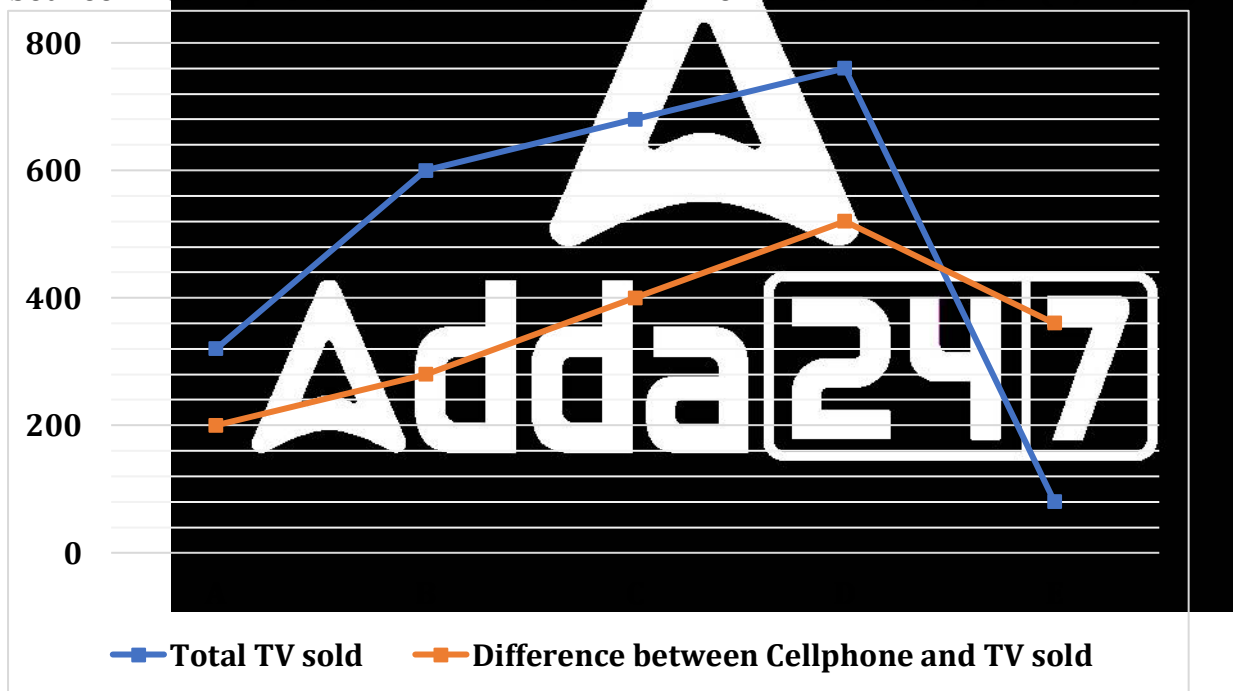
Q79. If 20% of total balls in A taken out and put into bag C and number of red balls in C become 400. Find the blue balls taken out from bag A.

- (a) 40
- (b) 50
- (c) 20
- (d) 30
- (e) 55

Directions (a) Find the difference between

(b) Find the difference between

(c) Find the difference between



Note – Total cell phones sold by all the shops are more than the total TV sold.

Items = cell phone + TV

Q80. Total item sold by E is what percentage more/less than total TV sold by D.

- (a) 31.57%
- (b) 30%
- (c) 36%
- (d) 31%
- (e) 31.25%

Q81. Total items sold by Shop F is 20% more than that by shop C and the ratio of total TV sold and cell phone sold by shop F is 7:15. Find the number of TV sold by F.

- (a) 685
- (b) 620
- (c) 672
- (d) 670
- (e) 666

Q82. Find the difference between sum of cell phone sold by C and E together and total items sold by A.

- (a) 685
- (b) 620
- (c) 600
- (d) 680
- (e) 660

Q83. Find the difference between sum of cell phone sold by C and E together and total items sold by A.

- (a) 19:10
- (b) 19:11
- (c) 10:19
- (d) 18:19
- (e) 19:22

Q84. If 12.5% of total items sold by C is 280. Find the difference between sum of cell phone sold by C and E together and total items sold by A.

- (a) 185
- (b) 120
- (c) 100
- (d) 180
- (e) 186

Q85. Average

- (a) 900
- (b) 720
- (c) 400
- (d) 800
- (e) 720

Directions (86-90): Read the information and answer the following question given below.

The information is about the staffs (lab assistant and professor) in three colleges.

For A – total lab assistant and total professor is 82.

For B – total lab assistant is 4 more than total lab assistant in C.

For C – total lab assistant is 6 less than total professor

Note – total professor in A is 44 less than total lab assistant in B.

Total staffs in C is 24 more than that in A and total professor in all the college is 102.



Q86. Find the total staff in B.

- (a) 90
- (b) 80
- (c) 60
- (d) 65
- (e) 70

Q87. Find the ratio of total professors in B to total lab assistant in A.

- (a) 6:1
- (b) 6:7
- (c) 6:5
- (d) 1:2
- (e) 3:1

Q88. The ratio of total staff in A to total staff in D is 20 less than the ratio of total staff in C to total staff in D.

- (a) 24
- (b) 25
- (c) 20
- (d) 30
- (e) 50

Q89. Total percentage of total staff in A is

- (a) 9.09%
- (b) 11.11%
- (c) 12.5%
- (d) 30%
- (e) 25%

Q90. Find the

- (a) 61
- (b) 62
- (c) 63
- (d) 64
- (e) 65

Q91. The boat goes downstream X kilometer in two hours. The same distance covered by boat in upstream in three hours. If the speed of stream is of 3km/h, then find 2X?

- (a) 12
- (b) 18
- (c) 18
- (d) 24
- (e) 30



Q92. A invest Rs. 6400 and B invest Rs. 7200 in a business. After 4 months, A withdrawal 30% of the initial investment and C join with 40% of initial investment of B. After one year, the total profit is 90000. Find the profit of A and C(in Rs.) approximate?

- (a) 48486
- (b) 42486
- (c) 44494
- (d) 57640
- (e) 77865

Q93. A jar contains milk and water. The ratio of milk and water is 8 : x. When 5 liters of milk and 30 liters of water are added to the jar, the ratio of milk and water becomes 1 : 2. Find x.

- (a) 6
- (b) 2
- (c) 5
- (d) 3
- (e) Can't Determine

Q94. A rectangular area of 3600 sq. cm having a perimeter of 180 cm. The length of the diagonal is $\sqrt{a^2 + b^2}$ cm having area of is 3600 sq. cm. Find the value of a and b.

- (a) 92
- (b) 180
- (c) 184
- (d) 176
- (e) 88

Q95. The speed of a train is 72 km/h and it crosses a platform in 25 seconds. If a train crosses an athlete who is running in same direction as the train in 10 seconds, then find the length of the platform in meters?

- (a) 150
- (b) 400
- (c) 450
- (d) 350
- (e) 500

Q96. The selling price of an article is Rs. 624 and a shopkeeper got a loss of 22%. If he marks up same article at 30% above the cost price and get a profit of Rs. 84, then find the discount percentage allowed by the shopkeeper?

- (a) 7.5%
- (b) 5%
- (c) 20%
- (d) 10%
- (e) 15%

Q97. Gopi invested Rs. X in scheme A at rate of 15% p.a. for two years. The amount received by Gopi from scheme A is reinvest in scheme B at the rate of 10% p.a. for two years on compound interest. If the difference between interest received from A and B is 32.4, then find X?

- (a) 1500 Rs.
- (b) 1200 Rs.
- (c) 1000 Rs.
- (d) 1800 Rs.
- (e) 800 Rs.

Q98. 7 men, 15 women can complete a piece of work in 15 days and the same work is completed by 18 men in 10 days. Then

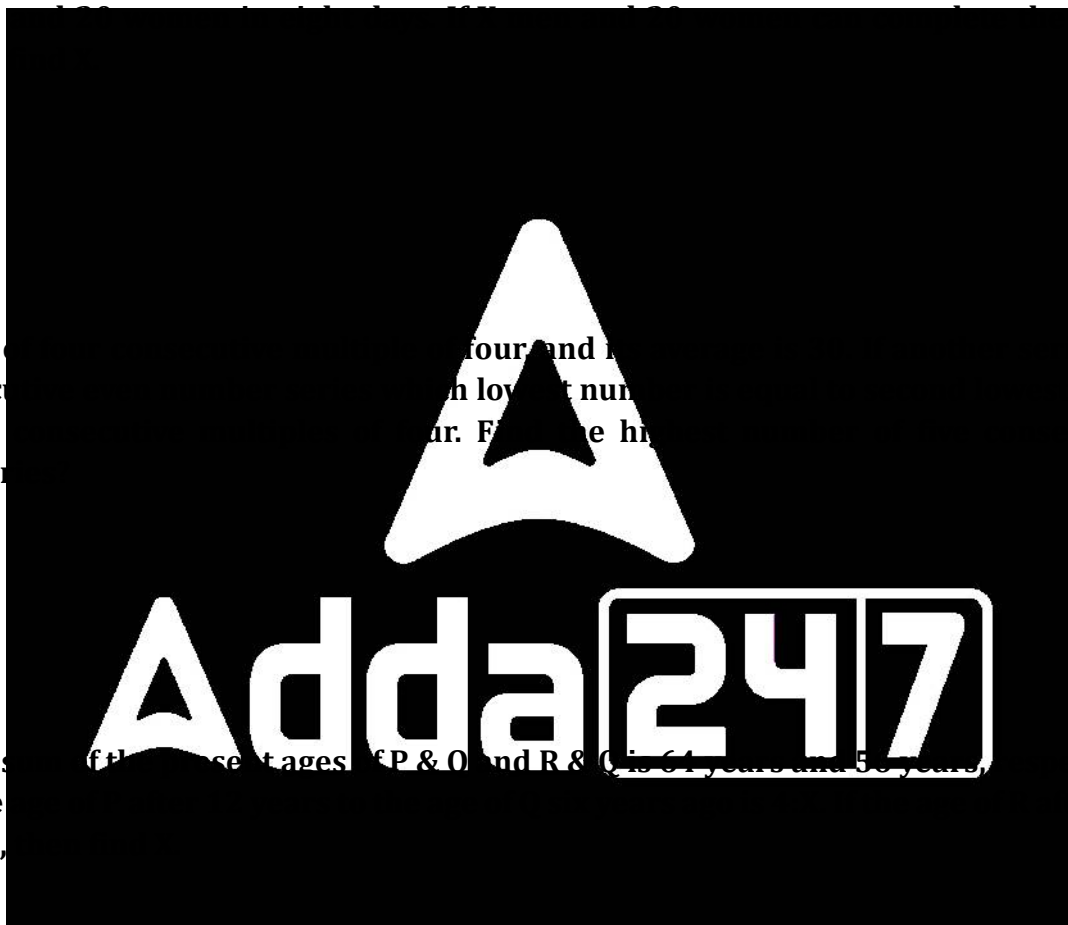
- (a) 18
- (b) 16
- (c) 24
- (d) 12
- (e) 20

Q99. A set of five consecutive numbers in ascending order is such that the sum of the first four numbers is equal to the sum of the last three numbers. Find the highest number in the set.

- (a) 36
- (b) 34
- (c) 32
- (d) 30
- (e) 38

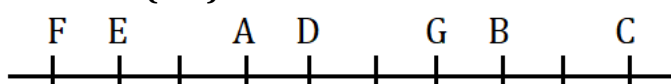
Q100. The sum of the present ages of P & Q and R & Q is 64 years and 56 years, respectively. The ratio of the present ages of P & R is 3:2. Find the age of Q after 12 years.

- (a) 1
- (b) 5
- (c) 3
- (d) 7
- (e) 9



Solutions

Solutions (1-3):



S1. Ans.(d)

S2. Ans.(c)

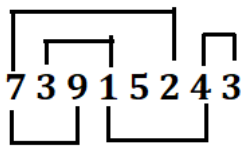
S3. Ans.(e)

S4. Ans.(b)

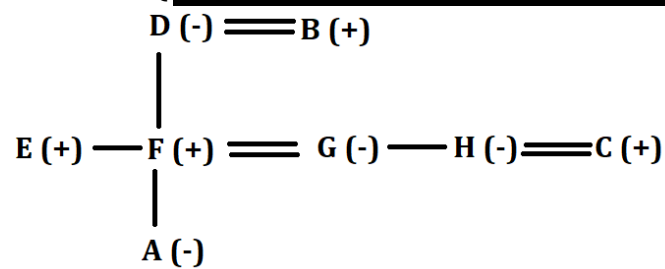
Sol. EARN, NEAR

S5. Ans.(d)

Sol.



Solutions (c)



S6. Ans.(c)

S7. Ans.(d)

S8. Ans.(c)

S9. Ans.(b)

Sol. I. $S < L$ (False)

II. $J \geq G$ (True)

S10. Ans.(e)

Sol. I. $A \leq M$ (False)

II. $F > Q$ (False)

S11. Ans.(c)

Sol. I. $X > R$ (False)

II. $Z \leq Q$ (False)

Both the conclusions are individually false but satisfy the either-or case as:

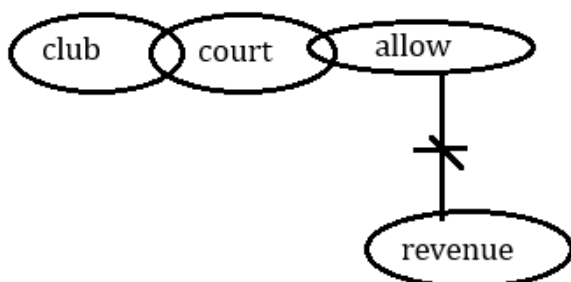
$Z=X$ and $Q=R$

Solutions (12-16):

Months	Dates	Persons - Colours
April	9	D - Yellow
	26	F - White
July	9	A - Pink
	26	E - Green
September	9	C - Red
	26	B - Blue

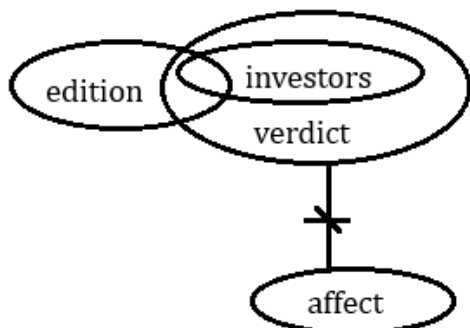
S12. Ans.(d)**S13. Ans.(c)****S14. Ans.(e)****S15. Ans.(a)****S16. Ans.(b)****Solutions (17-21):**

Persons
E
A
D
F
C
B

S17. Ans.(e)**S18. Ans.(a)****S19. Ans.(c)****Sol.** C is related to D as D is related to E. Hence, the correct answer is option (c).**S20. Ans.(b)****S21. Ans.(c)****S22. Ans.(e)****Sol.**

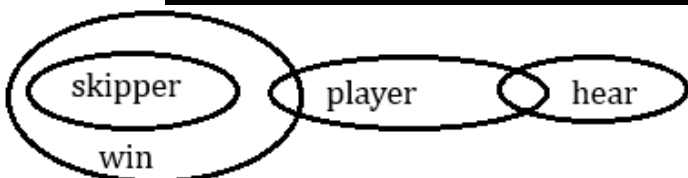
S23. Ans.(d)

Sol.



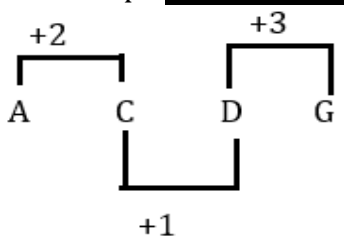
S24. Ans.(a)

Sol.



S25. Ans.(e)

Sol. Except (e)



Solutions (2)

Year		
1947		
1959		
1964	61	D
1973	52	E
1978	47	A
1988	37	F
2001	24	C

S26. Ans.(c)

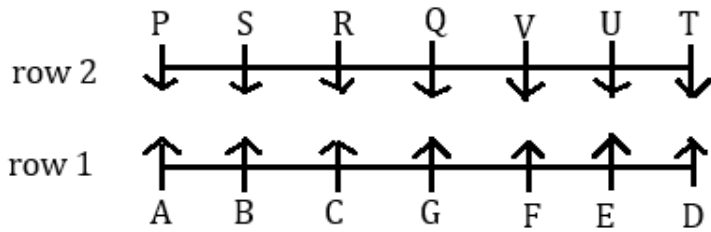
S27. Ans.(e)

S28. Ans.(d)

S29. Ans.(b)

S30. Ans.(e)

Solutions (31-35):



S31. Ans.(d)

S32. Ans.(e)

S33. Ans.(a)

S34. Ans.(d)

S35. Ans.(c)

S36. Ans.(c)

Sol. The passage states, "By eliminating the expenses of prime-location rentals, heavy décor, and customer service staff, businesses can focus resources on food quality, marketing, and delivery logistics." Thus, the urban food delivery app usage is a start-up friendly model that encourages mass entry.

Correct answer is (c).

Detailed Answer:

- **(a) The passage does not mention government subsidies or shared infrastructure as the key factor, so this is not correct.**
- While government subsidies and shared infrastructure can be helpful, the passage highlights *cost reduction* as the main enabler for entrepreneurs rather than just customer reach.
- **(b) The passage does not mention government subsidies or shared infrastructure as the key factor, so this is not correct.**
- Food delivery apps boost consumer demand, but they are not the primary enabler for entrepreneurs to start food businesses. They support the growth of existing businesses but do not lower the barrier to entry.
- **(c) The passage states, "By eliminating the expenses of prime-location rentals, heavy décor, and customer service staff, businesses can focus resources on food quality, marketing, and delivery logistics." This is directly supported by the passage.**
- Thus, lower costs make it possible for more entrepreneurs to launch their ventures.
- **(d) The ability to access a wider consumer base without geographical limitations.**
- While true in some contexts, the passage emphasizes *cost reduction* as the main enabler for entrepreneurs rather than just customer reach.
- **(e) The availability of shared kitchen infrastructure and government subsidies in urban areas.**
- The passage does not mention government subsidies or shared infrastructure as the key factor, so this is not correct.

S37. Ans.(b)

Sol. Both (I) and (III)

Statement-wise Analysis:

- **(I) Technological tools and mobile apps have played a significant role in the adoption of cloud kitchens.**
- Correct. The passage mentions: *"Much of this growth has been driven by the popularity of food delivery apps where customers need to tap once on their screens to get a meal delivered."*
- This clearly highlights the role of technology and apps.
- **(II) Britain experienced a stagnant cloud kitchen market until 2023.**
- Incorrect. The passage states: *"In Britain, the industry witnessed a dramatic transformation in 2023, expanding rapidly."*
- The word 'expanding' indicates growth, not stagnation, and the text does not specify a period of stagnation necessarily from 2023.
- **(III) Market urgency often leads to corner-cutting, compromising food safety.**
- Correct. The passage states: *"The rush to enter the market often leads to corner-cutting, compromising food safety."*
- This supports the statement.

S38. Ans.(a)

Sol. The final sentence of the passage states: *"The food safety authorities have emphasized that quality and safety are non-negotiable."*

or quality: "Yet, their transition has been rapid, and they have not always prioritized when strict adherence to food safety and safety standards is required."

Option (a) emphasizes the need for strict adherence to food safety and safety standards, which aligns with the passage's emphasis on quality and safety.

Correct answer is (a).

Option-wise Analysis:

- **(a) A cloud kitchen receives a five-star rating for speedy service despite complaints about poor food quality.**

- Correct. The passage mentions: *"Despite receiving high ratings for speed, many customers have complained about the quality of food, particularly regarding hygiene and safety."*

- **(b) A traditional restaurant reduces labor costs by switching to cloud kitchen services.**

- Incorrect. This shows innovation in operations but does not connect with the issue of safety or regulation.

- **(c) A local food vendor switches to cloud kitchen services and increases profits.**

- Incorrect. This represents economic benefit, not the highlighted concern about compromised quality and safety.

- **(d) A delivery app offers discounts to promote lesser-known cloud kitchens.**

- Incorrect. This emphasizes promotional strategies and growth, not consumer safety or rule compliance.

- **(e) A food safety authority mandates regular inspections for dine-in restaurants only.**

- Incorrect. While it hints at regulatory imbalance, the passage specifically stresses that cloud kitchens themselves often fail to comply because of operational urgency.

S39. Ans.(b)

Sol. From the passage: *"In Britain, the industry witnessed a dramatic transformation in 2023, expanding nearly threefold..."*

Correct answer: **(b)**

Option-wise Analysis:

- **(a) They were banned in 2023 due to safety issues.**
- Incorrect. The passage does mention safety concerns, but nowhere does it say cloud kitchens were banned in Britain.
- **(b) They grew three times larger in 2023 compared to earlier years.**
- Correct. The passage clearly states: *"In Britain, the industry witnessed a dramatic transformation in 2023, expanding nearly threefold..."* exactly.
- **(c) They replaced traditional restaurants.**
- Incorrect. The passage does not state that cloud kitchens replaced traditional restaurants.
- **(d) They focused on food packaging.**
- Incorrect. The passage mentions that cloud kitchens encourage collaborations with allied industries like packaging and food supply, but it does not state that they focused on food packaging.
- **(e) They saw a decline in 2023.**
- Incorrect. The passage states that the industry witnessed a dramatic transformation in 2023, expanding nearly threefold, indicating major growth in that year.

S40. Ans.(b)

Sol. Analysis

Statement (I): "Cloud kitchens have led to a decline in auxiliary factors such as food supply and packaging." → **Incorrect.** The passage clearly states: *"They also encourage collaborations with allied platforms and boost allied industries like packaging manufacturing and food supply chains."*

Hence, Statement I is **incorrect**.

Statement (II): "The United States has set an ambitious target, aiming to generate around \$27 billion from cloud kitchen operations between 2027 and 2032." → **Incorrect.** The passage says: *"The United States has set an ambitious target, aiming to generate around \$27 billion from cloud kitchen operations between 2027 and 2032."*

This means the amount is projected over a span of 5 years, not just by 2027. So the statement is factually wrong.

Statement (III): "One of the key reasons behind the proliferation of cloud kitchens is the substantial reduction in fixed operational costs." → **Correct.** The passage says: *"One of the most significant economic advantages of cloud kitchens is cost efficiency. By eliminating the expenses of prime-location rentals, heavy décor, and customer service staff..."*

This validates Statement III.

Thus, only Statements I and II are **incorrect**.

Correct answer: (b) Both (I) and (II)

S41. Ans.(d)

Sol. The context of the sentence implies that the work is **important but not visible to the public**, yet still contributes significantly to the economy. The phrase **“behind the scenes”** perfectly captures this idea — referring to **actions that occur out of public view but are essential**.

Now, let’s check each option:

- **(a) in broad daylight**
- Incorrect. This phrase means something done openly and visibly, which contradicts the idea of work being *quietly* done.
- **(b) without permission**
- Incorrect. The passage does not suggest that the work is unauthorized; rather, it stresses quiet contribution.
- **(c) on lip service**
- Incorrect. This phrase means saying something without really doing it, which contradicts the idea of work being “quietly done” in context.
- **(d) behind the scenes**
- Correct. This phrase means actions that occur out of public view but are still crucial. It perfectly captures the idea of essential work done quietly.
- **(e) under the radar**
- Incorrect. This phrase means something done secretly or unnoticed, but it doesn’t necessarily imply it’s essential or contributes significantly.

S42. Ans.(c)

Sol. “Elusive”

Meanings:

Option-wise

- **(a) Obvious**
 - *English meaning:* Easily seen, clear or self-evident.
 - *Hindi meaning:* स्पष्ट, सफ़
 - Incorrect, because the passage talks about a dream of launching a “startup” that was *not* “obvious”; it was difficult to achieve.
- **(b) Achievable**
 - *English meaning:* Capable of being achieved.
 - *Hindi meaning:* प्राप्त करने योग्य, हासिल किया जा सकने वाला
 - Incorrect, because the passage conveys the opposite idea—that the dream was *not achievable* earlier.
- **(c) Unattainable**
 - *English meaning:* Impossible to achieve or reach.
 - *Hindi meaning:* अप्राप्य, न हासिल होने वाला
 - Correct, as it directly matches the sense of “elusive dream” being out of reach.
- **(d) Defining**
 - *English meaning:* Critically important, decisive, or setting a clear meaning.
 - *Hindi meaning:* निर्णायक, परिभाषित करने वाला
 - Incorrect, because the passage talks about possibility, not definition.

- **(e) Difficult**

- *English meaning:* Hard to do or deal with.
- *Hindi meaning:* कठिन, मुश्किल
- Partially correct, but not as strong as “unattainable.” “Elusive” goes beyond just “difficult” — it implies nearly impossible.

Correct answer: **(c)**

S43. Ans.(a)

Sol. In this context, “*done behind the scenes*” refers to work that is **carried out or completed quietly**, without public attention.

Option-wise Meanings and Analysis:

- **(a) Completed**

- *English meaning:* Done or finished.
- *Hindi meaning:* पूरा होना, समाप्त होना
- Correct. Fits perfectly with “work being

- **(b) Final**

- *English meaning:* Last or end of something.
- *Hindi meaning:* अन्तिम, अन्त
- Incorrect. “Final” implies something is the end of something, not something that is being carried out.

- **(c) Avoid**

- *English meaning:* To keep away from or prevent something from happening.
- *Hindi meaning:* बचना, बचाना
- Incorrect. “Avoid” implies work performed, not avoided.

- **(d) Attach**

- *English meaning:* To connect or fasten something to something else.
- *Hindi meaning:* प्राप्ति, जोड़ना, जोड़ना
- Incorrect. “Attach” implies something is completed, not something that is being

- **(e) Repeat**

- *English meaning:* To do something again.
- *Hindi meaning:* दोहराना, दोहराना
- Incorrect. “Repeat” implies something is done once.

S44. Ans.(b)

Sol. The correct answer is “Click”.

Option-wise Meanings and Analysis:

- **(a) Strike**

- *English meaning:* Hit forcefully.
- *Hindi meaning:* प्रहार करना, मारना
- Incorrect. “Tap” here does not mean hitting hard, but lightly touching a screen.

- **(b) Click**

- *English meaning:* Press or select something on a screen with a finger or mouse.
- *Hindi meaning:* दबाना, क्लिक करना
- Correct. Fits perfectly with “tap once on their screens” in the context of using apps.

- **(c) Extract**
 - *English meaning:* Remove or take out something.
 - *Hindi meaning:* निकालना, उतारना
 - Incorrect, as the passage does not talk about removing but about screen interaction.
- **(d) Control**
 - *English meaning:* To direct, manage, or regulate something.
 - *Hindi meaning:* नियंत्रित करना, काबू रखना
 - Incorrect, since “tap” does not imply controlling.
- **(e) Attach**
 - *English meaning:* To join or fix something.
 - *Hindi meaning:* जोड़ना, संलग्न करना
 - Incorrect

S45. Ans. (e)

Sol. The correct answer is (e).

Sentence:

The dentist

Context: A dentist

Option Analysis:

(a) modify

- **English:** To change or alter something.
- **Hindi:** बदलना
- **Example:** The teacher modified the lesson plan.
- **Incorrect** – a dentist does not modify a decayed tooth to stop infection.

(b) excuse

- **English:** To justify or explain something.
- **Hindi:** बहाना देना
- **Example:** She gave an excuse for her mistake.
- **Incorrect** – meaningless in this context.

(c) recruit

- **English:** To bring new members into an organization.
- **Hindi:** भर्त करना
- **Example:** The company recruited new staff.
- **Incorrect** – irrelevant to treating a tooth.

(d) amplify

- **English:** to increase or make stronger.
- **Hindi:** बढ़ाना
- **Example:** The microphone amplified his voice.
- **Incorrect** – opposite meaning; dentist reduces infection, not amplifies it.

(e) remove

- **English:** to take away, eliminate.
- **Hindi:** निकालना / हटाना
- **Example:** The surgeon removed the tumor successfully.
- **Correct** – dentist removes the tooth to prevent infection.

Final Answer: (e) remove

S46. Ans.(e)

Sol. The correct answer is: **(e) augment**

Sentence:

The new technology promises to _____ the way we perform everyday tasks.

Context: *new technology* → should *improve/enhance* daily work, not block or worsen it.

Option Analysis:

(a) impede

- **English:** hinder, obstruct.
- **Hindi:** बाधा डालना
- **Example:** Heavy traffic impeded our progress.
- **Incorrect** – opposite meaning: technology is meant to help, not block.

(b) acclaim

- **English:** praise, commend.
- **Hindi:** प्रशंसा करना
- **Example:** The new technology was acclaimed for its efficiency.
- **Incorrect** – does not fit the context.

(c) stagnate

- **English:** stop moving or developing.
- **Hindi:** स्थिर होना
- **Example:** The economy stagnated due to lack of investment.
- **Incorrect** – opposite meaning: technology is meant to improve, not stagnate.

(d) deteriorate

- **English:** become worse.
- **Hindi:** खराब होना
- **Example:** The quality of the product deteriorated over time.
- **Incorrect** – opposite meaning: technology is meant to improve, not deteriorate.

(e) augment

- **English:** increase, improve, increase in effectiveness.
- **Hindi:** बढ़ाना, सुधारना
- **Example:** The new technology augmented human capabilities in problem-solving.
- **Correct** – perfectly fits: technology is meant to improve, not worsen.

Final Answer:

S47. Ans.(a)

Sol. The correct answer is: **(a) contributed**

Sentence:

The athlete's rigorous training and unwavering determination _____ to their remarkable success.

Context: *training + determination* → these are positive factors that *led to success*.

Option Analysis:

(a) contributed

- **English:** helped to bring about, played a role in.
- **Hindi:** योगदान देना
- **Example:** Her hard work contributed to the team's victory.
- **Correct** – perfectly fits: training and determination **contributed to success**.

(b) detracted

- **English:** reduced the value, took away from.
- **Hindi:** घटाना, कम करना
- **Example:** *His rude comment detracted from the speech.*
- **Incorrect** – opposite meaning.

(c) underestimated

- **English:** judged something as less important than it is.
- **Hindi:** कम आँका
- **Example:** *They underestimated the difficulty of the exam.*
- **Incorrect** – doesn't fit with success.

(d) isolated

- **English:**
- **Hindi:**
- **Example:**
- **Incorrect**

(e) impeded

- **English:**
- **Hindi:**
- **Example:** *It impeded his work.*
- **Incorrect**

Final Answer

S48. Ans.(b)

Sol. The correct

Sentence:

The new regulations aim to ensure fair competition and a level market for all companies.

Context: Regulations exist to ensure enforcement of rules in the market.

Option Analysis

(a) infringe

- **English:**
- **Hindi:**
- **Example:**
- **Incorrect** – opposite meaning.

(b) enforce

- **English:** to make sure laws or rules are obeyed.
- **Hindi:** लागू करना, अमल कराना
- **Example:** *The police enforce traffic laws.*
- **Correct** – regulations **enforce fair competition.**

(c) relinquish

- **English:** to give up, surrender.
- **Hindi:** छोड़ देना
- **Example:** *He relinquished control of the company.*
- **Incorrect** – unrelated to regulations.

(d) constrain

- **English:** to limit, restrict.
- **Hindi:** बाधित करना
- **Example:** *Lack of funds constrained the project.*
- **Incorrect** – opposite effect, rules don't restrict competition, they promote fairness.

(e) fragment

- **English:** to break into pieces.
- **Hindi:** टुकड़े करना
- **Example:** *The glass fragmented on impact.*
- **Incorrect** – illogical here.

Final Answer: (b) enforce

S49. Ans.(c)

Sol. The cor

Sentence:

The exam r

Context: Rules must be followed.

Option Ana

(a) scarcely

- **English:** hardly, barely.
- **Hindi:** शायद ही / मुश्किल से
- **Example:** *He scarcely held his breath before diving.*
- **Incorrect** – rules must be followed.

(b) precious

- **English:** of great value, precious.
- **Hindi:** कीमती
- **Example:** *She held the necklace preciously.*
- **Incorrect** – don't follow with rules.

(c) strictly

- **English:** in a strict manner.
- **Hindi:** सख्त
- **Example:** *Students must follow the rules strictly.*
- **Correct**

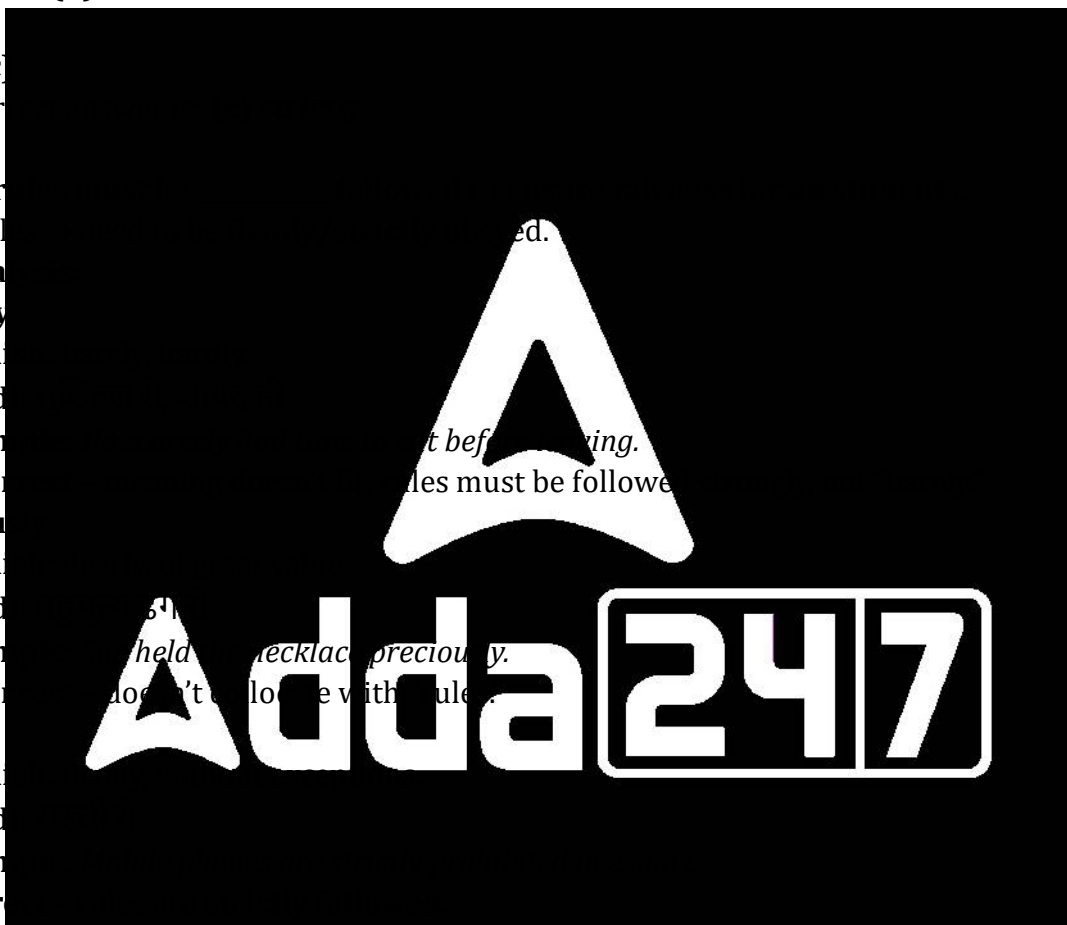
(d) hardly

- **English:** almost not, barely.
- **Hindi:** शायद ही / मुश्किल से
- **Example:** *He could hardly see in the dark.*
- **Incorrect** – wrong meaning in context.

(e) mostly

- **English:** mainly, generally.
- **Hindi:** अधिकतर
- **Example:** *The students are mostly attentive.*
- **Incorrect** – “mostly followed” is weak and imprecise.

Final Answer: (c) strictly



S50. Ans.(c)

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

Explanation:

1. **(C)** starts the paragraph logically by establishing the **context**: a hectic, fast-paced modern lifestyle leading to exhaustion.
2. *Key role*: Sets up the **problem** or **situation**.
3. **(B)** follows by introducing **travel** as a **solution**—an escape from this hectic routine.
4. *Key role*: Introduces **travel** as a theme and its growing significance.
5. **(A)** naturally builds on (B) by explaining how people are now **taking longer vacations** to unwind.
6. *Key role*: Develops the idea of **how** people are choosing to escape.
7. **(D)** continues the thought by detailing what **people** do during these vacations, thus further exploring the theme.
8. *Key role*: Offers a **concluding insight** into the motivation behind the behavior.
9. **(E)** concludes the paragraph by summarizing the overall impact of travel on **mental well-being**.
10. *Key role*: Provides a final thought or reflection on the topic.

S51. Ans.(b)

Sol. Correct

Explanation

1. **(C)** starts the paragraph logically by establishing the **context**: a hectic, fast-paced modern lifestyle leading to exhaustion.
2. *Key role*: Sets up the **problem** or **situation**.
3. **(B)** follows by introducing **travel** as a **solution**—an escape from this hectic routine.
4. *Key role*: Introduces **travel** as a theme and its growing significance.
5. **(A)** naturally builds on (B) by explaining how people are now **taking longer vacations** to unwind.
6. *Key role*: Develops the idea of **how** people are choosing to escape.
7. **(D)** continues the thought by detailing what **people** do during these vacations, thus further exploring the theme.
8. *Key role*: Offers a **concluding insight** into the motivation behind the behavior.
9. **(E)** concludes the paragraph by summarizing the overall impact of travel on **mental well-being**.
10. *Key role*: Provides a final thought or reflection on the topic.

S52. Ans.(a)

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

Explanation:

1. **(C)** starts the paragraph logically by establishing the **context**: a hectic, fast-paced modern lifestyle leading to exhaustion.
2. *Key role*: Sets up the **problem** or **situation**.
3. **(B)** follows by introducing **travel** as a **solution**—an escape from this hectic routine.
4. *Key role*: Introduces **travel** as a theme and its growing significance.

5. **(A)** naturally builds on (B) by explaining how people are now **taking longer vacations** to unwind.
6. *Key role:* Develops the idea of **how** people are choosing to escape.
7. **(D)** continues the thought by detailing **what people do** during these vacations—meeting people, exploring cultures, and recharging.
8. *Key role:* Adds **depth** to the benefits of travel.
9. **(E)** concludes by **generalizing the trend**, noting a broader shift in mindset toward **mental well-being**.
10. *Key role:* Offers a **concluding insight** into the motivation behind the behavior.

S53. Ans.(d)

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

Explanation

1. **(C)** starts with the **problem** of a hectic modern lifestyle leading to stress.
2. *Key role:* Sets up the **problem or situation**.
3. **(B)** follows by introducing **travel** as a **solution**—an escape from this hectic routine.
4. *Key role:* Introduces **travel** as a theme and its growing significance.
5. **(A)** naturally builds on (B) by explaining how people are now **taking longer vacations** to unwind.
6. *Key role:* Develops the idea of **how** people are choosing to escape.
7. **(D)** continues the thought by detailing **what people do** during these vacations—meeting people, exploring cultures, and recharging.
8. *Key role:* Adds **depth** to the benefits of travel.
9. **(E)** concludes by **generalizing the trend**, noting a broader shift in mindset toward **mental well-being**.
10. *Key role:* Offers a **concluding insight** into the motivation behind the behavior.

S54. Ans.(e)

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

Explanation

1. **(C)** starts with the **problem** of a hectic modern lifestyle leading to stress.
2. *Key role:* Sets up the **problem or situation**.
3. **(B)** follows by introducing **travel** as a **solution**—an escape from this hectic routine.
4. *Key role:* Introduces **travel** as a theme and its growing significance.
5. **(A)** naturally builds on (B) by explaining how people are now **taking longer vacations** to unwind.
6. *Key role:* Develops the idea of **how** people are choosing to escape.
7. **(D)** continues the thought by detailing **what people do** during these vacations—meeting people, exploring cultures, and recharging.
8. *Key role:* Adds **depth** to the benefits of travel.
9. **(E)** concludes by **generalizing the trend**, noting a broader shift in mindset toward **mental well-being**.
10. *Key role:* Offers a **concluding insight** into the motivation behind the behavior.

S55. Ans.(d)

Sol. Original sentence:

Be careful (A) not to microwave (B) the hot plate (C) when you take the food out of the catch (D).

The words **microwave (B)** and **catch (D)** are misplaced.

Corrected sentence after swap:

Be careful (A) not to catch (D) the hot plate (C) when you take the food out of the microwave (B).

Word-by-word meanings & explanation

(A) careful

- **English:** cautious, paying attention to avoid danger.
- **Hindi:** सावधान

(B) microwave

- **English:** a kitchen appliance that uses electromagnetic waves to heat or cook food.
- **Hindi:** माइक्रोवेव
- **Example:** I microwave the food.
- **Incorrect use:** He microwave the food. → *microwave* is a noun, not a verb. → *microwave* → *out of*

(C) plate

- **English:** a shallow, flat dish used for serving or eating food.
- **Hindi:** प्लेट
- **Example:** She ate her food from a large plate.
- **Correct use:** He ate the food from the plate.

(D) catch

- **English:** to seize or take hold of something.
- **Hindi:** पकड़ना
- **Example:** Be careful not to catch the pan when it's hot.
- **Incorrect use:** He catch the pan. → *catch* is a verb, not a noun. → *catch* → *not to*

Final Corrected sentence:

Be careful not to catch the hot plate when you take the food out of the microwave.

Final Answer: (d) B-D

S56. Ans.(a)

Sol. Original sentence:

India is system (A) digitising its healthcare rapidly (B), and artificial intelligence (AI) offers a huge transformation (C) to super-charge this opportunity (D).

The correct answer is (a) A-B and C-D.

Corrected sentence after swaps:

India is rapidly (B) digitising its healthcare system (A), and artificial intelligence (AI) offers a huge opportunity (D) to super-charge this transformation (C).

Word-by-word meanings & explanation

(A) system

- **English:** an organized set of principles or methods; here → *healthcare system*.
- **Hindi:** प्रणाली, व्यवस्था
- **Example:** *The education system needs reform.*
- **Incorrect in original place** → “India is system digitising” is ungrammatical. Correct after swap: *healthcare system*.

(B) rapidly

- **English:** quickly, with great speed.
- **Hindi:** तेजी से
- **Example:** *Technology is rapidly changing our world.*
- **Incorrect in original place** → “healthcare rapidly” is awkward. Correct at start: *is rapidly digitising*.

(C) transform

- **English:** to change the form or nature of something.
- **Hindi:** बदलना, परिवर्तित करना
- **Example:** *Artificial intelligence is transforming our lives.*
- **Incorrect in original place** → “super-charging” is awkward. Correct at end: *super-charging*.

(D) opportunity

- **English:** a chance or a favorable time for something to happen.
- **Hindi:** अवसर, मौका
- **Example:** *Artificial intelligence offers the opportunity to improve healthcare.*
- **Incorrect in original place** → “super-charging” is awkward. Correct after swap: *super-charging*.

Final Corrected Sentence: India is rapidly digitising its healthcare system, and artificial intelligence offers a huge opportunity to super-charge this transformation.

Final Answer: (A), (B) and (C), (D)

S57. Ans. (e)

Sol. Original

Astronomical (A) temperatures (B) are usually estimated from spectroscopic (C) measurements (D). This sentence is already grammatically and contextually correct.

- In astronomy, scientists **estimate the temperatures of stars (astronomical temperatures)** using **spectroscopic measurements** (light spectrum analysis).
- So, no swap is needed.

Word-by-word meanings & explanation

(A) Astronomical

- **English:** relating to astronomy (the study of space, stars, planets). Also means *extremely large*.
- **Hindi:** खगोल संबंधी / बहुत बड़ा
- **Example:** *Astronomical observations help us understand galaxies.*
- **Correct here** – “astronomical temperatures” = temperatures of stars/planets.

(B) Temperatures

- **English:** degree of heat present in an object.
- **Hindi:** तापमान
- **Example:** *The sun's temperature is millions of degrees.*
- **Correct here** – what is being estimated in astronomy.

(C) Spectroscopic

- **English:** relating to the study of spectra (light split into colors/wavelengths).
- **Hindi:** वर्णक्रमीय
- **Example:** *Spectroscopic methods reveal the composition of stars.*
- **Correct here** – modifies *measurements*.

(D) Measurements

- **English:**
- **Hindi:**
- **Example:**
- **Correct here**

Why Others

- (a) A-B – ...ing on ... is not ... derived, not
- (b) B-C – ... spectroscopic ...
- (c) A-C – ... “astronomical” ... meaning.
- (d) B-D – ... against ... correct

Final Corre

Astronomical measurements are estimated from spectroscopic measurements.

Final Answer

S58. Ans.(a)

Sol. Original

Growing (A) children in involving (B) and nurturing a few plants at home can open (C) up the magical (D) world of nature and science to them.

Problem:

- *Growing*
- Correct s
- So, we must swap (A) Growing ↔ (B) involving.

Corrected sentence after swap (A-B):

Involving (B) children in growing (A) and nurturing a few plants at home can open (C) up the magical (D) world of nature and science to them.

Word-by-word meanings & explanation

(A) Growing

- **English:** developing, cultivating, increasing in size.
- **Hindi:** उगाना / बढ़ना
- **Example:** *She enjoys growing vegetables in her garden.*
- **Incorrect in original place** – “Growing children” gives the wrong meaning. Correct after swap → “growing plants.”

(B) Involving

- **English:** engaging, including in an activity.
- **Hindi:** शामिल करना
- **Example:** *The teacher is involving students in practical activities.*
- **Incorrect in original place** – “children in involving” is awkward. Correct after swap → “Involving children ...”

(C) Open

- **English:** to make accessible, to introduce.
- **Hindi:** खोलना / परिचय कराना
- **Example:** *Books can open up new worlds for children.*
- **Correct** – “can open up the magical world...” is perfectly logical

(D) Magical

- **English:** magical, enchanted
- **Hindi:** जादुई
- **Example:** *Children can open up a magical world.*
- **Correct** – “can open up a magical world...” is perfectly logical

Final Correction

Involving children can open up a few practical magical worlds

of nature and imagination.

Final Answer

S59. Ans.(c)

Sol. The correct

B-D: Electric

number of E

Analysis:

Column Match

- **A. The new cybersecurity policy mandates organizations**
 - Correct match: **D. to support the growing number of EV users nationwide**? Doesn't fit
 - Correct match: **E. to perform complex surgeries with minimal invasion**? Not logical
 - Correct match: **F. that are currently beyond the scope of classical computers**? Not related to cyber
 - Correct match: **D. to support the growing number of EV users nationwide**? Not connected.
 - So, **A has no correct match here.**
- **B. Electric vehicle manufacturers are expanding their charging networks**
 - Correct match: **D. to support the growing number of EV users nationwide**. Logical and grammatically correct.
- **C. Rising sea levels and erratic weather patterns**
 - Correct match: **E. to perform complex surgeries with minimal invasion**? Doesn't make sense.
 - Correct match: **F. that are currently beyond the scope of classical computers**? Not logical.
 - Correct match: **D. to support the growing number of EV users nationwide**? Not related.
 - So, **C has no correct match.**

S60. Ans.(c)

Sol. Meaning of the Phrase: DARK HORSE

- **English:** A *dark horse* is a person who is not well-known but unexpectedly succeeds or shows remarkable ability.
- **Hindi:** *Dark horse* का अर्थ है — ऐसा व्यक्ति जो बहुत कम जाना जाता है, लेकिन अचानक से सफलता प्राप्त कर लेता है या अपनी असाधारण क्षमता दिखाता है।

Sentence-wise Analysis

(I) Nobody expected her to win the competition, but she turned out to be the dark horse of the event.

- **Analysis:**
- Here, *dark horse* is used correctly because she was unexpected to win, but surprised everyone with her success.

• **Correct Usage:**

• **Eg:** In the election, he was the dark horse who won the vote of the favorite.

(II) The pair of horses was shown,

• **Analysis:**

- Correct usage of the phrase is shown, as the horses were unexpected winners.

• **Correct Usage:**

• **Eg:** That was the dark horse who won the race.

(III) The farmer had a white cow.

• **Analysis:**

- This is incorrect usage of the phrase as the cow is not unexpected (being white), nor does it unexpectedly succeed.

• **Incorrect Usage:**

• **Eg:** Wrong usage of the phrase as the cow is not unexpected (being white), nor does it unexpectedly succeed.

Correct Answer: Both (I) and (II) are correct.

Final Note:

- **Dark horse:** A hidden talent. Unexpected winner.
- सही प्रयोग: जब किसी व्यक्ति की कभी हुई क्षमता सामने आती है।
- रंग के लिए नहीं प्रयोग किया जाता।

S61. Ans.(b)

Sol. Sentence

The Prime Minister promised (A)/ to improving infrastructure (B)/ in rural districts by allocating (C)/ additional funds in the next budget. (D)

Segment-wise Analysis

(A) The Prime Minister promised

- **Grammar Rule:**
- The verb “promise” is a transitive verb that usually takes an infinitive (**to + base verb**) or a clause as its complement.
 - Example: She promised **to help** her friend.
 - Example: He promised **that he would arrive** early.
- **Correct Usage Here:**
- “The Prime Minister promised” is grammatically correct because it correctly introduces what was promised.

No error in (A).

(B) to improving infrastructure

- **Grammar Rule:**
- After verbs like *promise, decide, plan, hope, agree*, etc., we use the **infinitive (to + base verb)**, **not** the gerund (-ing form).
 - Wrong: *He promised **to helping** his brother.*
 - Correct: *He promised **to help** his brother.*
- **Error:**
- Here, “to improving” is incorrect because “promised” requires an infinitive, so it should be “to improve.”

Error in (B).

(C) in rural districts by allocating

- **Grammar Rule:**
- Preposition
- The preposition *by* is used to indicate the method or means of doing something. It is followed by a gerund or a noun.
 - Example: *He was promoted **by fulfilling** the project.*
- **Correct:**
- “in rural districts” is grammatically correct.

No error in (C).

(D) additional

- **Grammar Rule:**
- Noun
- The word *additional* is an adjective, not a noun. It is used to describe something that is added or extra.
 - Example: *He provided **additional** support.*
- **Correct:**
- “additional” is grammatically correct.

No error in (D).

Correct Answer: (A)

Corrected Sentence:

The Prime Minister promised to improve infrastructure in rural districts by allocating additional funds in the budget.

Key Rule Reminder:

- **Promise:**
- He promised to help.
- He promised helping.

S62. Ans.(c)

Sol. Sentence in Question

She enjoys hiking in the mountains, (A)/ swimming in the lake, (B)/ and to explore ancient ruins (C)/ during her travels abroad. (D)

Segment-wise Analysis

(A) She enjoys hiking in the mountains

- **Grammar Rule:**
- After verbs like *enjoy, dislike, avoid, suggest*, etc., we use the **gerund (-ing form)**, not the infinitive.
 - Example: *She enjoys **reading** novels.*
- **Usage Here:**
- “enjoys hiking in the mountains” follows the correct rule.

Correct → (A)

(B) swimming in the lake

- **Grammar Rule:**
- This is parallel to the previous phrase ("hiking"), and it also uses the gerund form correctly.
 - Example: *He enjoys hiking, swimming, and cycling.*
- **Usage Here:**
- "swimming in the lake" is consistent and correct.

Correct → (B)

(C) and to explore ancient ruins

- **Grammar Rule:**
- When listing activities in parallel structure, **all items must be in the same grammatical form.**
- Here, the first two are gerunds (*hiking, swimming*), so the third must also be a gerund (*exploring*), not a verb.
- Incorrect: *He likes hiking, swimming, and to explore ancient ruins.*
- Correct: *He likes hiking, swimming, and exploring ancient ruins.*

Incorrect → (C)

(D) during

- **Grammar Rule:**
- Prepositions must be used consistently.
- Example: *He likes hiking his tree, swimming his lake, and exploring his ruins.*
- **Usage Here:**
- This is inconsistent and incorrect.

Correct → (B)

Correct Answer

Corrected Sentence

She enjoys

her travels

Key Rule Reminder

- **Parallelism in Lists:**
- All items in a list must be in the same grammatical form.
- Example: *He likes running, jumping, and climbing.* (all gerunds)

S63. Ans. (a)

Sol.

Sentence in

The orchestra have (A)/ started rehearsing (B)/ for the upcoming international music festival (C)/ scheduled in Vienna next month. (D)

Segment-wise Analysis

(A) The orchestra have

- **Grammar Rule:**
- Collective nouns (e.g., *orchestra, committee, team, audience*) are **singular** when the group is seen as a single unit, so they take a singular verb.
 - Incorrect: *The orchestra have started rehearsal.*
 - Correct: *The orchestra has started rehearsal.*
- **Error Here:**
- "orchestra have" is incorrect. It should be "orchestra has."

Incorrect → (A)

(B) started rehearsing

- **Grammar Rule:**
- Present perfect tense (*has/have + past participle*) is correct, and the verb “rehearse” naturally takes the gerund “rehearsing” in this context.
 - Example: *She has started working.*
- **Usage Here:**
- “started rehearsing” is grammatically correct.

Correct → (B)

(C) for the upcoming international music festival

- **Grammar Rule:**
- Preposition + noun phrase is used correctly. The phrase is clear and grammatically sound.
 - Example: *She prepared for the annual event.*

Correct → (C)

(D) scheduled

- **Grammar Rule:**
- Redundant.
 - For
 - Re

Correct → (C)

Correct Answer

Corrected Sentence

The orchestra, which is scheduled to perform at the upcoming international music festival, is scheduled in

Vienna next year.

Key Rule Reminder

- **Collective Nouns:** When the group acts as a single unit, use a singular verb.
 - Correct: *The orchestra is rehearsing.*
 - Incorrect: *The orchestra are rehearsing.* (which is rare in formal writing)

S64. Ans. (a)

Sol. Sentence

A unexpected earthquake in volcanic activity (A)/ has forced authorities to evacuate (B)/ nearby villages as a result of heavy rainfall.

Segment-wise

(A) A unexpected

- **Grammar Rule:**
- The article “an” is used before words beginning with a consonant sound, while “a” is used before words beginning with a **vowel sound**.
 - Incorrect: *a apple*
 - Correct: *an apple*
- **Error Here:**
- “unexpected” begins with a **vowel sound (ʌ)**, so the correct form is “**an unexpected.**”

Incorrect → (A)

(B) has forced authorities to evacuate

- **Grammar Rule:**
- Present perfect tense (*has + past participle*) is correct, and “to evacuate” correctly follows “forced.”
 - Example: *The storm has forced people to leave.*

Correct → (B)

(C) nearby villages as a safety

- **Grammar Rule:**
- “as a safety measure” is the correct collocation.
- “safety” here functions as an adjective modifying “measure.”

Correct → (C)

(D) measure to prevent casualties

- **Grammar Rule:**
- Noun phrase (*measure*) + infinitive phrase (*to prevent casualties*) is correct.

Correct → (D)

Correct Answer: (a) A

Corrected Sentence

An unexpected spike in volcano activity has forced authorities to evacuate nearby villages as a safety measure.

Key Rule Reminder

- **Article Rule:**
 - Use **an** before a vowel sound.
 - Use **a** before a consonant sound.

S65. Ans.(c)

Sol. Sentence

The ambassador (B)/ being (C)/ before making any comment.

Segment-wise

(A) The ambassador

- **Grammar Rule:**
- Subject and complement. No article is used before a singular noun.
- Example: The ambassador is a diplomat.

Correct → (C)

(B) said the reports have

- **Grammar Rule:**
- “said” introduces reported speech.
- The sentence is in the present tense.
- Example: He said the reports have been checked.

Correct → (C)

(C) being examined

- **Grammar Rule:**
- After *have*, we must use the **past participle (been)**, not the present participle (*being*).
- Incorrect: *The reports have being checked.*
- Correct: *The reports have been checked.*
- **Error Here:**
- “being” should be replaced with “**been**.”

Incorrect → (C)

(D) before making any comment

- **Grammar Rule:**
- “before + gerund” is correct, as gerunds often follow prepositions.
- Example: *Think carefully before answering.*

Correct → (D)

Correct Answer: (c) C

Corrected Sentence

The ambassador said the reports have been examined carefully by his staff before making any comment.

Key Rule Recap

- **Perfect tenses:**
 - Structure: *have/has + past participle (V3)*
 - Wrong: *have being*
 - Correct: *have been*

S66. Ans.(b)

Sol.

I. $x^2 - 6x - 4x$

$x(x-6) - 4(x-$

$(x-4)(x-6) =$

$x = 4 \text{ \& } 6$

II. $5y^2 - 10y$

$5y(y-2) - 6(y-$

$(5y-6)(y-2)$

$y = 6/5 \text{ \& } 2$

$y = 1.2 \text{ \& } 2$

x
4
4
6
6

So, $x > y$

S67. Ans.(c)

Sol.

I. $2x^2 - 4x - 5$

$2x(x-2) - 5(x-$

$(2x-5)(x-2)$

$x = 5/2 \text{ \& } 2$

$x = 2.5 \text{ \& } 2$

II. $y^2 - 7y - 5y + 35 = 0$

$y(y-7) - 5(y-7) = 0$

$(y-7)(y-5) = 0$

$y = 7 \text{ \& } 5$

x	y	Relation
2.5	7	$y > x$
2.5	5	$y > x$
2	7	$y > x$
2	5	$y > x$

So, $x < y$



S68. Ans.(a)**Sol.**

I. $6x^2 - 4x - 3x + 2 = 0$

$2x(3x-2) - 1(3x-2) = 0$

$(2x-1)(3x-2) = 0$

$x = \frac{1}{2} \& \frac{2}{3}$

$x = 0.5 \& 0.66$

II. $10y^2 - 6y - 5y + 3 = 0$

$2y(5y-3) - 1(5y-3) = 0$

$(2y-1)(5y-3) = 0$

$y = \frac{1}{2} \& \frac{3}{5}$

$y = 0.5 \& 0.6$

x
0.5
0.5
0.66
0.66

So, no relation

S69. Ans.(c)**Sol.**

I. $2x^2 + 12y + 7 = 0$

$2x(x+6) + 7 = 0$

$(2x+7)(y+6) = 0$

$x = -\frac{7}{2} \& -6$

$x = -3.5 \& -6$

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

$2y(y+1) + 5 = 0$

$(2y+5)(y+1) = 0$

$y = -\frac{5}{2} \& -1$

$y = -2.5 \& -1$

x
-3.5
-3.5
-6
-6

-1	$y > x$
-2.5	$y > x$
-1	$y > x$

So, $x < y$ **S70. Ans.(d)****Sol.**

$\frac{780}{13} + 5 + 23 = \frac{x}{100} \times 60$

$60 + 5 + 23 = x \times \frac{3}{5}$

$x = \frac{88 \times 5}{3}$

$x = 146.66 \approx 147$

S71. Ans.(d)

Sol.

$$\frac{40}{100} \times 250 + 14 = x^2 + 56$$

$$100 + 14 = x^2 + 56$$

$$x^2 = 58$$

$$x \approx 8$$

S72. Ans.(c)

Sol.

$$21^2 - \frac{25}{100} \times 220 - ? = 131$$

$$441 - 55 - ?$$

$$? = 386 - 131$$

$$? = 255$$

S73. Ans.(c)

Sol.

$$24^2 + 12 = ?$$

$$576 + 12 = ?$$

$$21 = ?$$

Sol (74-79)

In bag A,

Percentage of

$$(62.5 - 37.5)$$

$$25\% = 60$$

$$240 = 100\%$$

$$\text{Red balls} = 60$$

$$\text{Blue balls} = 180$$

Similarly,

Total bags

A

B

C

D

E

380

228

152

750

540

210

S74. Ans.(a)

$$\text{Sol. Required answer} = \frac{150 + 540}{90 + 210} \times 100 = 230\%$$

S75. Ans.(b)

$$\text{Sol. Required answer} = (201 + 392) - 540 = 53$$

S76. Ans.(c)

$$\text{Sol. Required answer} = 150 + 540 : 90 = 690 : 90 = 23:3$$

S77. Ans.(d)

Sol. Required answer = $\frac{399+228+540}{3} = 389$

S78. Ans.(e)

Sol. Total balls in F = 125% of 540 = 675

Blue balls in F = $\frac{1}{2} \times 150 = 75$

Red balls in F = 600

S79. Ans.(a)

Sol. Taken out

Taken out R

Taken out b

Sol (80 – 85

In shop A,

Total TV sol

Cell phone –

Cell phone =

Total items s

Similarly,

Shops	Total items sold	Cell phone sold
A	840	320
B	1440	880
C	1760	720
D	2080	800
E	5280	440

S80. Ans.(a)

Sol. Required

S81. Ans.(c)

Sol. Total items sold by F = 120% of 1760 = 2112

Let TV and Cellphone sold by F be 7x and 15x

22x = 2112

96 = x

Tv sold by F = 7x = 672

S82. Ans.(d)

Sol. Required answer = (1080+440) – 840 = 680

S83. Ans.(e)

Sol. Required ratio = 760 : 880 = 19:22

S84. Ans.(a)

Sol. Defective TV sold by D = 12.5% of 760 = 95

Defective cellphone = 280 - 95 = 185

S85. Ans.(d)

Sol. Required average = $\frac{880+1080+440}{3} = 800$

Solutions (86-90):

Let denote lab assistant in C be x.

Colleges	Professor	Lab assistant	Staffs
A			
B			
C			

$$x+6 + x = 82$$

$$2x + 6 = 106$$

$$50 = x$$

Also,

$$y = x+4 - 44$$

total profess

total profess

Colleges	Lab assistant
A	72
B	
C	

S86. Ans.(a)

Sol. Required answer = 90

S87. Ans.(d)

Sol. Required

S88. Ans.(a)

Sol. Total staff in D = $\frac{3}{4} \times 72 = 54$

Lab assistant in D = 50 - 20 = 30

Required answer = 54 - 30 = 24

S89. Ans.(b)

Sol. Required answer = $\frac{10}{90} \times 100 = 11.11\%$

S90. Ans.(a)

Sol. Required answer = $\frac{72+50}{2} = 61$

S91. Ans.(d)

Sol. Given Information:

The boat goes downstream a distance of X km in 2 hours

The same distance is covered upstream in 3 hours

The speed of the stream is "s" km/h

Explanation:

Downstream speed = (b + s) and it covers X km in 2 hours,

So, $b + s = X / 2$

Upstream speed = (b - s) and it covers X km in 3 hours,

So, $b - s = X / 3$

Adding both

$2b = (X / 2)$

$2b = 5X / 6$

$b = 5X / 12$

Substitute b

$(5X / 12) + s$

Solve for s:

$s = X / 12$

To find 2X, v

$2X = 24$

S92. Ans.(c)

Sol. Profit sh

$= 6400 \times 4$

$= 32 : 45 : 12$

Required pr

$= \frac{9}{32+45+12} \times 90000 \approx 44494 \text{ Rs.}$

S93. Ans.(e)

Sol. Let initi

And initial q

ATQ, $\frac{8y+5}{xy+30} =$

$8y + 5 = xy + 30$

$8y - xy = 25$ ---- (i)

So, we can't determine the value of 'x' because it will be satisfied on both 6 and also non integer value of 'y' here

S94. Ans.(d)

Sol. Let the breadth of the rectangular park = x meters

And, length of rectangular park = 2x meters

Length with pathway = $2x+8$

If area of half pathway = 352

So, for full pathway = 352×2 meters

Area of pathway = area of rectangular park with pathway – area of rectangular park

$$x \times (2x+8) - 2x \times x = 352 \times 2$$

$$x^2 + 4x - x^2 = 352$$

$$4x = 352$$

$$x = 88$$

$$\text{Length of rectangular park} = 88 \times 2 = 176 \text{ meters}$$

S95. Ans.(d)

Sol. Information Given:

Speed of train = 72 km/h = 20 m/s

Speed of athlete = 18 km/h = 5 m/s

Time to cross

Time to cross

Explanation

Relative speed

Length of the

The distance

Distance = S

The length of

Length of pl

S96. Ans.(e)

Sol. Inform

Selling price

Loss = 22%

Mark-up = 3

Profit = Rs. 8

Explanation

SP = 78% of

624 = 0.78 ×

C.P. = 624 /

The marked price is 30% more than the cost price:

$$\text{M.P.} = \text{C.P.} + 30\% \text{ of C.P.}$$

$$\text{M.P.} = 800 + 30\% \text{ of } 800$$

$$\text{M.P.} = 800 + 240 = \text{Rs. } 1040$$

$$\text{Selling Price (SP)} = \text{C.P.} + \text{Profit}$$

$$\text{SP} = 800 + 84 = \text{Rs. } 884$$

$$\text{Discount} = \text{M.P.} - \text{SP}$$

$$\text{Discount} = 1040 - 884 = \text{Rs. } 156$$

$$\text{Discount percentage} = (\text{Discount} / \text{M.P.}) \times 100$$

$$\text{Discount percentage} = (156 / 1040) \times 100 = 15\%$$

S97. Ans.(b)

Sol. Simple interest = $(P \times R \times T) / 100$

P = principle, R = rate of interest and T = Time

Also, equivalent rate of interest at rate of 10% p.a. for two years = $(10+10+\frac{10 \times 10}{100})\%$
= 21%

Interest received for A = $\frac{X \times 15 \times 2}{100} = 0.3X$

ATQ, Amount invested in scheme B = $X + 0.3X = 1.3X$ Rs.

Interest received from scheme B = $1.3X \times \frac{21}{100} = 0.273X$

$$0.3X - 0.273X = 32.4$$

$$X = 1200 \text{ Rs.}$$

S98. Ans.(d)

Sol. Given:

7 men and 1

18 men and

X men and 2

We need to

Explanation

Let the work

Total work =

$$(7M + 15W)$$

$$7M + 15W =$$

From the se

Total work =

$$\text{So, } (18M + 20W)$$

$$18M + 20W$$

$$7M + 15W =$$

$$18M + 20W$$

Multiply the

$$(7M + 15W)$$

$$(18M + 20W)$$

Equation 3:

$$\text{Equation 4: } 276M + 360W = 15/8$$

$$\text{Equation 5: } 280M + 600W = 40/15$$

$$\text{Equation 6: } 540M + 600W = 30/8$$

Now, subtract Equation 5 from Equation 6:

$$(540M + 600W) - (280M + 600W) = 30/8 - 40/15$$

Simplify:

$$260M = (30/8 - 40/15)$$

$$260M = 450/120 - 320/120$$

$$260M = 130/120$$

$$260M = 13/12$$

So,

$$M = (13/12) / 260 = 13 / (12 \times 260) = 13 / 3120 = 1 / 240$$

Substitute $M = 1/240$ into Equation 1:

$$7M + 15W = 1/15$$

$$7 \times (1/240) + 15W = 1/15$$

$$7/240 + 15W = 1/15$$

$$15W = 1/15 - 7/240$$

$$15W = (16/240 - 7/240) = 9/240$$

$$W = 9 / (240 \times 15) = 9 / 3600 = 1 / 400$$

$$(X \text{ men} + 20 \text{ women}) \times 10 = 1 \text{ unit of work}$$

$$(X \times M + 20 \times W) \times 10 = 1$$

$$X \times (1/240) + 20 \times (1/400) = 1/10$$

$$X/240 + 20/400 = 1/10$$

$$X/240 + 1/20 = 1/10$$

Multiply the

$$X + 12 = 24$$

$$\text{Thus, } X = 24$$

S99. Ans.(a)

Sol. Let the

$$4n, 4n + 4, 4n + 8$$

The average of these three numbers is 40.

The formula for the average of three numbers is:

$$(4n + (4n + 4) + (4n + 8)) / 3 = 40$$

Simplify the

$$(16n + 24) / 3 = 40$$

$$16n + 24 = 120$$

$$16n = 96$$

$$n = 6$$

Thus, the four consecutive numbers are:

$$4n = 4 \times 6 = 24$$

$$4n + 4 = 24 + 4 = 28$$

$$4n + 8 = 24 + 8 = 32$$

$$4n + 12 = 24 + 12 = 36$$

Let the five consecutive

$$28, 30, 32, 34, 36$$

The highest

S100. Ans.(c)

Sol. The present age of R = $32 - 12 = 20$ years

The present age of Q = $56 - 20 = 36$ years

The present age of P = $64 - 36 = 28$ years

ATQ,

$$\frac{28 + 12}{36 - 6} = \frac{4}{X}$$

$$\frac{40}{30} = \frac{4}{X}$$

$$X = 3$$