SBI PO Prelims Memory Based Paper (Held On: 24 March 2025 Shift 1) (Previous Year Paper)

SBI Probationary Officer (PO) • 2025 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Directions: Read the following sentences carefully, choose the one that is grammatically and contextually correct, and mark it as your answer.

(a) The quality of the raw materials used in the production line determine the durability of the final consumer product.
(b) To fully understand the geopolitical crisis, history must be analyzed through a completely objective lens.
(c) Each of the venture capitalists who invested in the AI startup expects a tenfold return on their initial investment.
(d) The CFO requested that every department head submit their revised budget estimates by Friday evening.
(e) The internal audit revealed that neither the manager nor his subordinates were aware of the security breach.

Q2. Directions: Read the following sentences carefully, choose the one that is grammatically and contextually correct, and mark it as your answer.

(a) The reason why the stock market crashed so unexpectedly was because automated trading algorithms triggered a mass sell-off.
(b) Unlike traditional internal combustion engines, the maintenance costs of electric vehicles are significantly lower.
(c) The legal counsel advised the board that the non-disclosure agreement was binding on both the signing parties.
(d) If the firm would have anticipated the sudden shift in consumer preferences, it could have avoided bankruptcy.
(e) The aggregate valuation of these tech unicorns is higher than the GDP of several developing nations combined.

Q3. Directions: Read the following sentences carefully, choose the one that is grammatically and contextually correct, and mark it as your answer.

(a) The judge ordered that the evidence be sealed and that the identities of the witnesses remain confidential.
(b) Driving through the dense fog, a massive billboard suddenly loomed out of the darkness, startling the driver.
(c) The university administration has forbidden the students from organizing political rallies on campus grounds.
(d) Her economic philosophy is grounded in the belief that market forces, if left unregulated, will naturally self-correct.
(e) The production manager, along with his entire team of skilled technicians, have been laid off due to automation.

Q4. Directions: Read the following sentences carefully, choose the one that is grammatically/contextually incorrect, and mark it as your answer.

(a) The rapid proliferation of deepfake technology has complicated the task of verifying digital evidence in courts.
(b) Either the marketing head or the regional directors are going to present the quarterly growth numbers to the board.
(c) The judge ruled that the defendant's actions were not only reckless but they also violated federal environmental laws.
(d) The venture capital ecosystem is undergoing a correction, forcing founders to prioritize unit economics over raw growth.
(e) Whomever the political party nominates will face intense scrutiny from the independent ethics commission.

Q5. Directions: Read the following sentences carefully, choose the one that is grammatically/contextually incorrect, and mark it as your answer.

(a) The newly appointed managing director has and always will prioritize shareholder value over short-term bonuses.
(b) No sooner had the merger been announced than the company’s stock price plummeted by fifteen percent.
(c) The micro-finance institution caters to small entrepreneurs, most of whom are women living in semi-urban belts.
(d) The state government's decision to subsidize electric vehicles has driven a massive surge in clean energy adoption.
(e) Every invoice, receipt, and ledger entry must be meticulously checked before the final audit report is compiled.

Directions

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Aurangzeb's son, Bahadur Shah I, _(1)_ the religious policies of his father and attempted to reform the administration. "However, after his death in 1712, the Mughal dynasty sank into chaos and violent feuds. In 1719 alone, four emperors successively ascended the throne". During the reign of Muhammad Shah (reigned 1719–1748), the empire began to break up, and vast tracts of central India passed from Mughal to Maratha's hands. The far-off Indian campaign of Nadir Shah, who had previously reestablished Iranian suzerainty over most of West Asia, the Caucasus, and Central Asia, culminated with the Sack of Delhi and _(2)_ the remnants of Mughal power and prestige. Many of the empire's elites now sought to control their own affairs and broke away to form independent kingdoms. But, according to Sugata Bose and Ayesha Jalal, the Mughal Emperor continued to be the highest manifestation of sovereignty. Not only the Muslim gentry, but the Maratha, Hindu, and Sikh leaders took part in ceremonial acknowledgments of the emperor as the sovereign of India. Meanwhile, some regional polities within the increasingly fragmented Mughal Empire, involved themselves and the state in global _(3)_, leading only to defeat and loss of territory during the Carnatic Wars and the Bengal War. The Mughal Emperor Shah Alam II (1759–1806) made _(4)_ attempts to reverse the Mughal decline but ultimately had to seek the protection of the Emir of Afghanistan, Ahmed Shah Abdali, which led to the Third Battle of Panipat between the Maratha Empire and the Afghans (led by Abdali) in 1761. In 1771, the Marathas recaptured Delhi from Afghan control and in 1784 they officially became the protectors of the emperor in Delhi, a state of affairs that continued until the Second Anglo-Maratha War. Thereafter, the British East India Company became the protectors of the Mughal dynasty in Delhi. The British East India Company took control of the former Mughal province of Bengal-Bihar in 1793 after it _(5)_ local rule (Nizamat) that lasted until 1858, marking the beginning of the British colonial era over the Indian subcontinent. By 1857 a considerable part of former Mughal India was under the East India Company's control. After a crushing defeat in the war of 1857–1858 which he nominally led, the last Mughal, Bahadur Shah Zafar, was _(6)_ by the British East India Company and exiled in 1858. Through the Government of India Act 1858, the British Crown assumed direct control of East India Company-held territories in India in the form of the new British Raj. In 1876 the British Queen Victoria assumed the title of Empress of India.

Q6. Select the most appropriate option to fill in blank number 1.

(a) Commenced
(b) Mandated
(c) Decreed
(d) Contended
(e) Repealed

Q7. Select the most appropriate option to fill in blank number 2.

(a) Shattered
(b) Instituted
(c) Healed
(d) Fathered
(e) Forged

Q8. Select the most appropriate option to fill in blank number 3.

(a) Concordances
(b) Accords
(c) Conflicts
(d) Truces
(e) Concurrences

Q9. Select the most appropriate option to fill in blank number 4.

(a) Efficacious
(b) Futile
(c) Virtuous
(d) Sedate
(e) Melancholy

Q10. Select the most appropriate option to fill in blank number 5.

(a) Legitimated
(b) Ratified
(c) Endorsed

(d) Abolished
(e) Warranted

Q11. Select the most appropriate option to fill in blank number 6.
(a) Instated
(b) Deposed
(c) Baptized
(d) Enthroned
(e) Superseded

Q12. Directions: Given below are five scattered segments of a sentence. Indicate the correct sequence that correctly assembles the segments and makes a coherent sentence.
A. mental health awareness
B. recognize the importance
C. as more people
D. is growing
E. of emotional well-being.
(a) ACDBE
(b) ABCDE
(c) ABDEC
(d) ABEDC
(e) ADCBE

Q13. Directions: Given below are five scattered segments of a sentence. Indicate the correct sequence that correctly assembles the segments and makes a coherent sentence.
A. public transportation
B. helps reduce
C. and air pollution
D. traffic congestion
E. in cities.
(a) ABDCE
(b) ABCDE
(c) ABDEC
(d) ACDBE
(e) BACDE

Q14. Directions: Given below are five scattered segments of a sentence. Indicate the correct sequence that correctly assembles the segments and makes a coherent sentence.
A. adopting eco-friendly habits
B. such as recycling
C. and conserving water
D. a significant difference.
E. can make
(a) BACDE
(b) ABDEC
(c) ABCDE
(d) ABCED
(e) ACDBE

Q15. Direction: In the following question, two columns are given containing three phrases each. The phrases are labelled A, B and C in the first column and P, Q and R in the second column. A phrase from the first column may or may not connect with a phrase in the second column to make it grammatically and contextually meaningful sentence. Identify the correct option given below that gives the correct sequence in which one or more sentence can be formed. If one

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of the options make it possible for a meaningful sentence to be formed, indicate 'None of these' as your answer.

Column 1	Column 2
(A)The cell, which has been set up following the instructions of the Election Commission	(P)the Rajya Sabha Secretariat set up a special cell for the poll on Tuesday.
(B)With the nomination process for the presidential election set to begin	(Q)both assistant returning officers for the election- are also part of this cell.
(C)The president election will be held across the country	(R)who will be part of the counting process.

(a) A-Q
(b) B-P
(c) A-P
(d) B-R
(e) None of these

Q16. Direction: Which of the phrases given below the sentence should replace the word or phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 'No correction required' as the answer.

One of the side effect of the drug is an increased susceptibility to infections.

(a) sided effect of the
(b) side effect of them
(c) side effected of the
(d) side effects of the
(e) side effect of these

Q17. Direction- Which of the phrases given below the sentence should replace the word or phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 'No correction required' as the answer.

This law was seldom or ever put in execution.

(a) will seldom or ever
(b) was seldom or never
(c) was seldom of ever
(d) No correction required
(e) were seldom or ever

Q18. Direction- Which of the phrases given below the sentence should replace the word or phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 'No correction required' as the answer.

He had an equipment that I needed for the experiment

(a) has an equipment
(b) have an equipment
(c) had a equipment
(d) had some equipment
(e) No correction required

Q19. Direction- Which of the phrases given below the sentence should replace the word or phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 'No correction required' as the answer.

The council is encouraging the development of the property for both employment with recreation.

(a) employment and recreation.
(b) employment for recreation.
(c) employment because recreation.
(d) No correction required
(e) employment but recreation.

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Q20. Direction- Which of the phrases given below the sentence should replace the word or phrase given in bold in the sentence to make it grammatically correct? If the sentence is correct as it is given and no correction is required, mark 'No correction required' as the answer.

She looked at Timothy's recumbent form besides her.

(a) for besides her.
(b) No correction required.
(c) forming besides her.
(d) forms besides her.
(e) form beside her.

Directions

Directions: Given below is a set of six sentences, which when properly sequenced, form a coherent paragraph. Sentences 3 is fixed in its place. Arrange the sentences in the correct sequence and answer the questions that follow.

A. It takes motivation and grit to stick with a problem and work your way through it.

B. And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans.

3. Figuring out how to solve a problem is itself a hard problem.

D. Life is strewn with problems that need to be solved.

E. Some problems, however, are much more complex and involve multiple layers of decision-making.

F. It requires finding information, but it also involves persistence.

Q21. Which sentence makes the FIRST statement in the correct sequence?

(a) D
(b) A
(c) B
(d) E
(e) F

Q22. Which sentence makes the SECOND statement in the correct sequence?

(a) F
(b) E
(c) D
(d) A
(e) B

Q23. Which sentence makes the FOURTH statement in the correct sequence?

(a) D
(b) A
(c) E
(d) F
(e) B

Q24. Which sentence makes the FIFTH statement in the correct sequence?

(a) F
(b) E
(c) D
(d) A
(e) B

Q25. Which sentence makes the LAST statement in the correct sequence?

(a) D
(b) A
(c) F
(d) B

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(e) E

Q26. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

The whimsical (A) artist created conspicuous (B) paintings that were both vivid (C) and meticulous (D) in detail.

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

Q27. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

The overt (A) signs of anger were quite subtle (B), making the situation appear more ambiguous (C) and less plausible (D) to outsiders.

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

Q28. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

The unscrupulous (A) businessman earned huge profits through notorious (B) ventures, but his corrupt actions (C) often overshadowed (D) his public image.

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

Q29. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

The zealous (A) player felt melancholy (B) after defeat, but his resilient (C) character helped him recover with brisk (D) energy.

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

Q30. Directions: Find out the most effective word from the given options to fill the blanks of the following question.

1. Vikram hopes he can _____ his boss and take his position in the company.
2. The use of robots will someday _____ manual labor.

(a) Supersede
(b) Superficial
(c) Superfluous
(d) Supernatural
(e) Supercilious

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Q31. Directions: Find out the most effective word from the given options to fill the blanks of the following question.

1. My sister has an _____ way of tying her shoelaces.
2. The drunken man's _____ conduct drew the police officer's attention.

(a) Frequent
(b) Normal
(c) Usual
(d) Aberrant
(e) Familiar

Q32. Directions: Find out the most effective word from the given options to fill the blanks of the following question.

1. Amit is _____ about his vegetarianism because he eats chicken.
2. Instead of giving me another _____ story, just be honest for once.

(a) Candid
(b) Mendacious
(c) Reliable
(d) Moral
(e) Ethical

Directions

Read the following passage carefully and answer the questions that follow.

Among the myriad economic anomalies triggered by the COVID-19 pandemic, few stories are as starkly contrasting—yet deeply connected—as the parallel surges experienced by the physical comfort market and digital software infrastructure. As lockdowns confined millions of families to their homes, households were forced to adapt simultaneously to a new reality of indoor isolation. This dual survival mechanism catalysed unprecedented, explosive growth in both the traditional soft toys market and the enterprise software sector, completely rewriting the rule book on modern consumer demand. In the physical realm, the toy industry experienced a remarkable resurgence, driven by parents seeking comforting, screen-free developmental tools for their children. With schools closed and outdoor play restricted, soft toys and plushies transitioned from simple nursery accessories to essential developmental anchors. These tactile toys offered emotional security, anxiety relief, and a medium for imaginative play during a deeply unsettling time. This unprecedented spike in global demand was a clear sign that families were prioritising emotional well-being and comforting physical play to combat the psychological fatigue of isolation. Toy manufacturers quickly pivoted, ramping up production of plush toys that emphasised comfort, sensory engagement, and companionable play for homebound children. Meanwhile, a parallel revolution was unfolding in the virtual space. As physical office spaces and school campuses shuttered overnight, the global software industry became the nervous system of the global economy. The sudden, non-negotiable transition to remote work and e-learning accelerated digital transformation by an estimated five to seven years in a matter of months. Software-as-a-Service (SaaS) models, cloud computing infrastructure, and collaborative communication platforms experienced a gold rush as businesses scrambled to remain operational. However, this software boom was not merely a temporary reaction to a crisis; it represented a permanent structural pivot. Companies and educational institutions that historically viewed advanced digital pipelines as a "nice-to-have" luxury suddenly found them to be survival imperatives. Thus, while soft toys acted as a physical, comforting salve for children navigating a disrupted world at home, enterprise software acted as the structural scaffolding that kept global education and commerce from collapsing entirely.

Q33. Which of the following is true according to the passage?

(a) Soft toys became popular as a means for children to engage in physical activities outdoors.
(b) The software industry saw a decline during the COVID-19 pandemic.
(c) Soft toys provided emotional security for children during the pandemic.
(d) Toy manufacturers decreased production of plush toys due to reduced demand.
(e) Cloud computing infrastructure experienced a decline during the COVID-19 pandemic.

Q34. According to the passage, the toy industry experienced a remarkable resurgence due to:

(a) The increase in outdoor activities for children.
(b) Parents seeking comforting, screen-free developmental tools for their children.
(c) The decline of digital software infrastructure application.
(d) The implementation of homeschooling practices globally.
(e) The closure of toy manufacturing plants worldwide.

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Q35. Which factor has not been cited as a reason for the decline in physical office spaces and school campuses?

(a) The COVID-19 pandemic.
(b) The necessity of remote work.
(c) The acceleration of digital infrastructure transformation.
(d) The decline in demand for digital tools.
(e) The temporary reaction to a crisis.

Q36. Which of the following sentences can be inferred from the passage?

(a) The COVID-19 pandemic had a positive impact on consumer demand for soft toys and digital software.
(b) Toy manufacturers had to prioritize emotional security over commercial profits.
(c) The global software industry experienced a decrease in collaborative communication platforms.
(d) The surge in demand for soft toys was a temporary trend that reversed post-pandemic.
(e) The increase in cloud computing infrastructure was a reactionary adjustment rather than a permanent change.

Q37. What will fit in the blank taken from the passage: 'This unprecedented _____ in global demand was a clear sign that families were prioritising emotional well-being and comforting physical play to combat the psychological fatigue of isolation.'

(a) scarcity
(b) spike
(c) reduction
(d) plateau
(e) downturn

Q38. Which of the following words is similar in meaning to "confined" in the context of the passage?

(a) liberated
(b) restricted
(c) expanded
(d) dispersed
(e) increased

Q39. Which of the following words is similar in meaning to "book" in the context of the passage?

(a) catalogue
(b) manual
(c) register
(d) volume
(e) rewrite

Q40. Which of the following words is opposite in meaning to "sign" in the context of the passage?

(a) indication
(b) proof
(c) signal
(d) obscurity
(e) evidence

QUANTITATIVE APTITUDE

Q41. The length of rectangular field is thrice its breadth. If Rs. 960 is required to fencing the field at the rate Rs 7.5 per m, then what would be the difference between the length and breadth of the field?

(a) 32 m
(b) 16 m
(c) 24 m
(d) 48 m
(e) 40 m

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Q42. The speed of train A is 20 m/sec, which is double the speed of train B. The ratio of the length of the trains A to B is 10:7, respectively. Train B can cross a pole in 28 seconds; then find the length of train A (in meters).

(a) 400
(b) 250
(c) 280
(d) 360
(e) 440

Directions

Read the following information carefully and answer the questions given below.

The information is about three sellers who sold two types of rice, i.e., brown and white.

The quantity of white rice sold by all three sellers is 260 kg. The quantity of brown rice sold by B is 25% more than the quantity of white rice sold by A. The quantity of white rice sold by B is 15 kg more than that of brown rice. The ratio of brown rice sold by A to B is 3:4. The average quantity of brown rice sold by all three sellers is 70 kg, and the total rice (white and brown) sold by C is 100 kg.

Q43. The total quantity of white rice sold by C is how much more or less than the total quantity of brown rice sold by A (in Kg).

(a) 15kg more
(b) 10kg less
(c) 15kg less
(d) 10kg more
(e) 20kg less

Q44. The total quantity of white rice sold by B is what percentage of the total quantity of brown rice sold by A?

(a) 146.67%
(b) 150%
(c) 153.33%
(d) 156,67%
(e) 160%

Q45. The total quantity of white rice sold by D is 5 kg more than the average quantity of brown rice sold by A and C. If the total quantity of brown rice sold by D and B is in the ratio of 3:4, respectively, then find the total quantity of rice (brown and white) sold by D.

(a) 125 kg
(b) 130 kg
(c) 135 kg
(d) 140 kg
(e) 145 kg

Q46. If the price of each kg of white rice sold by A is Rs. 20 and the total revenue earned by A by selling all the quantity of rice (brown + white) is Rs. 2500, then find the price of each kg of brown rice sold by A.

(a) Rs. 10
(b) Rs. 11
(c) Rs. 12
(d) Rs. 13
(e) Rs. 14

Q47. Find the ratio of the total quantity of white rice sold by B to the total quantity of brown rice sold by A and B together.

(a) 21:35
(b) 23:35
(c) 23:37
(d) 25:37
(e) 25:39

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Q48. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

√(21.98 × 30.09 + 123.90) = ? ÷ 4

(a) 98
(b) 127
(c) 123
(d) 130
(e) 112

Q49. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

29.98% of 560+120.11 of 39=?

(a) 4889
(b) 4848
(c) 4678
(d) 4458
(e) 4008

Q50. What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

22.02^2 + 1/9 of 44 = ? - 45.09% of 100.9

(a) 534
(b) 450
(c) 239
(d) 670
(e) 809

Q51. A and B can complete a work in 15 and 30 days, respectively. A and B work together for 6 days, and then A leaves. C joins the work, and B & C together complete the remaining work in 5 days. In how many days can C complete the whole work alone?

(a) 110/9
(b) 123/8
(c) 150/7
(d) 121/3
(e) None of these

Q52. The present age of a father is twice as that of his son. 10 years ago, the age of father was thrice the age of his son. If the ratio of present age of son's mother to father is 9 : 8, then find the difference between present age of mother and son (in years)?

(a) 24
(b) 30
(c) 18
(d) 25
(e) 20

Q53. A man invested Rs.44999.87 in two different schemes A and B, which scheme A offers simple interest at rate of 7.5% p.a. and scheme B offers simple interest at rate of 8% p.a., If after two years, the ratio of interest received by man from scheme A to that of B is 15 : 8, then find the approximate amount invested by man in scheme B (in Rs)?

(a) 30000
(b) 12000
(c) 20000
(d) 15000
(e) 18000

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Directions

Read the following pie charts carefully and answer the questions given below.

The pie chart (I) shows the percentage distribution of the total number of tickets sold by five different cinema halls on Sunday.
The pie chart (II) shows the percentage distribution of the total profit earned by these cinema halls on Sunday.

Total number of tickets sold = 200

Note: The average profit earned per ticket sold by all five cinema halls together is Rs 30.

[Figure: see this question online]
[Figure: see this question online]

Q54. Find the difference between the profit earned on each ticket sold by A and B together and the profit earned on each ticket sold by D and E together (In Rs).

(a) Rs 4
(b) Rs 5
(c) Rs 6
(d) Rs 8
(e) Rs 10

Q55. The total number of tickets sold by E and C together is what percentage more or less than the total number of tickets sold by B?

(a) 100% more
(b) 112.5% more
(c) 125% more
(d) 137.5% more
(e) 150% more

Q56. The total number of tickets sold by X is 3/5th of the A. If the profit earned on each ticket sold by X is 20% more than that of D, then find the total profit earned by X (in Rs).

(a) Rs 2250
(b) Rs 2400
(c) Rs 2550
(d) Rs 2700
(e) Rs 2880

Q57. The average number of tickets sold by B and D together is how many more or less than the average number of tickets sold by A and E together.

(a) 15
(b) 20
(c) 25
(d) 30
(e) 35

Q58. If the total profit earned by F is 33.33% more than that of A, and the total tickets sold by C is 40% of the total tickets sold by F, then find the profit on each ticket sold by F (in Rs).

(a) Rs 16
(b) Rs 18
(c) Rs 20
(d) Rs 22
(e) Rs 25

Q59. A and B invested Rs 7999.99 and Rs 5000.03 in a business. A invested his amount for whole years and B invested for T+2 days. At the end of the year, the profit share of B is Rs 5999.93 out of total profit of Rs. 22000.01. Find the approximate value of 'T'?

(a) 267
(b) 217
(c) 247

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(d) 307
(e) 311

Q60. A spends 30% of his monthly income on rent, 25% of the remaining on groceries, and the remaining amount on entertainment and savings in the ratio 2:3, respectively. What percentage of his income is spent on entertainment?

(a) 19%
(b) 21%
(c) 30%
(d) 25%
(e) 18%

Q61. A tank contains 149.99 liters of juice and soda, in which 49.99 liters are soda. If 30.12 liters of mixture are taken out and 10.02 liters of pure juice are added, then find the ratio of juice to soda in the resultant mixture.

(a) 6:5
(b) 8:3
(c) 5:7
(d) 4:5
(e) 9:4

Q62. A is the set of ten consecutive numbers, while the average of second lowest and the highest number of set A is 32. If B is the set of five consecutive odd number which lowest number is equal to second highest number of set A, then find the average of set B?

(a) 41
(b) 37
(c) 39
(d) 43
(e) 45

Directions

Read the following table carefully and answer the questions given below.

The table shows the total number of EVs manufactured by five different companies. It also shows the percentage of petrol vehicles manufactured out of the total vehicles (Petrol + Diesel + EV) and the percentage of diesel vehicles manufactured out of the total petrol vehicles.

Companies	Total EV Manufactured	% of Petrol Vehicles (out of Total Vehicles)	Diesel Vehicles (% of Petrol Vehicles)
A	90	50%	40%
B	120	40%	25%
C	180	30%	50%
D	240	25%	60%
E	72	60%	50%

Q63. The total number of vehicles (diesel, EV, and petrol) manufactured by A is how many more or less than the total number of diesel vehicles manufactured C, D and B together.

(a) 34
(b) 40
(c) 44
(d) 54
(e) 64

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Q64. The total number of vehicles (diesel, EV, and petrol) manufactured by F is 25% more than that of D, and the total number of petrol vehicles manufactured by F is half that of C. If the ratio of the total number of diesel vehicles manufactured by B to F is 10:19, respectively, then find the total number of EVs manufactured in F.

(a) 235
(b) 245
(c) 255
(d) 265
(e) 275

Q65. Find the ratio of the total number of vehicles (diesel, EV, and petrol) manufactured by C to the total number of EVs manufactured by B.

(a) 19 : 4
(b) 20 : 3
(c) 21 : 4
(d) 21 : 5
(e) 23 : 4

Q66. The total number of petrol vehicles manufactured by E is what percentage more or less than the total number of diesel vehicles manufactured by D?

(a) 80%
(b) 40%
(c) 30%
(d) 50%
(e) 70%

Q67. Find the difference between the total number of diesel vehicles manufactured by D and the total number of vehicles (diesel, EV, and petrol) manufactured by B.

(a) 290
(b) 300
(c) 310
(d) 320
(e) 330

Q68. A sold two items, X and Y, at 25% and 35% profit, respectively. If the difference between their profit is Rs 750 and the cost price of both items is the same, find the cost price of item X.

(a) Rs 750
(b) Rs 1750
(c) Rs 7500
(d) Rs 8750
(e) Rs 5750

Q69. The ratio of the speed of a boat in still water to the speed of a current is 4:1. The total time taken by the boat to cover D km downstream and D - 10 km upstream is 12 hours. Find D.

(a) 125
(b) 105
(c) 80
(d) Can’t be determined
(e) None of these

Q70. A invested Rs (P + 500) in compound interest for two years at 10% p.a. and received interest of Rs 840. If he invested Rs P at 15% p.a. for simple interest for the same period, then find the amount he received (in Rs).

(a) 4000
(b) 4550
(c) 1550
(d) 3500

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(e) 4050

REASONING ABILITY

Directions

Directions: Read the following information carefully and answer the questions given below:

Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

C is six years elder than the person who likes to visit Manali. One person was born between the persons who likes to visit Manali and Ooty. U is immediately elder than the person who likes to visit Ooty. S is two persons elder than T. The one who likes to visit Goa is immediately younger than the T. C doesn't like to visit Goa. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar. P doesn't like to visit Goa, Shimla and Ooty.

Q71. What is the sum of ages of S, U and Q?

(a) 121
(b) 111
(c) 101
(d) 122
(e) 120

Q72. What is the age of the person who likes to visit Ooty?

(a) 32 years
(b) 7 years
(c) 44 years
(d) 38 years
(e) 81 years

Q73. Which of the following combinations is correctly matched?

(a) S – 1944 – Munnar
(b) Q – 2018 – Goa
(c) P – 1933 – Ladakh
(d) U – 2018 – Ooty
(e) T – 1944 – Shimla

Q74. Which among the following statements is/are false?

I. U is elder than T.
II. C is 37 years elder than S.
III. S doesn't like to visit Ooty.

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

Q75. Four of the following five are alike in a certain way and thus form a group. Find the one which doesn't belong to the group.

(a) P
(b) U
(c) C
(d) T
(e) Q

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Q76. How many pairs of letter are there in the word “MEDITATION” that has as many letters between them in the word as in the alphabet (In backward and forward directions)?

(a) One
(b) Three
(c) Two
(d) Five
(e) Four

Directions

Directions: Study the following information carefully and answer the given questions:

Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

T is studying in the month having odd number of days. Either two persons were studying before T or after T. Two persons were studying between T and the one who is studying about Duck. S was studying three persons after the person who is studying about Parrot and four months before Z. Three persons were studying between Z and the one who is studying about Eagle. Y is studying about Sparrow two persons before U. U is studying before V. The one who is studying about Swan is studying immediately after the one studying about Crow. Two persons were studying between the ones studying about Crow and Peacock. W is not the first one to study.

Q77. Which among the following combinations is correct?

(a) W and the one studying about Duck
(b) T and the one studying about Peacock
(c) U and the one studying about Swan
(d) X and the one studying about Parrot
(e) S and the one studying about Pigeon

Q78. Which of the following statements is true?

(a) Y is studying in the month of June.
(b) Two persons were studying after U.
(c) T is studying about Eagle
(d) Z is studying in the month of October.
(e) V is not studying about Swan.

Q79. How many persons were studying between W and the one studying about Crow?

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

Q80. Which among the following statement is not true?

I. Z is studying about Duck
II. U is studying in the month having even number of days.
III. X is studying in the month after W.

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

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Q81. Who among the following was born in the month of June?

(a) The person studying about Swan
(b) The person studying about Crow
(c) The person studying about Parrot
(d) The person studying about Duck
(e) The person studying about Peacock

Directions

Directions: Study the following information carefully and answer the given questions.

Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

I sits second from one of the extreme ends. Only two persons sit between I and J and both face the opposite direction. D sits third to the left of J, where both are not facing the same direction. As many persons sit to the right of D as to the right of F. Only four persons sit between F and E, who sits second to the left of K. G sits immediate right of K and both of them are facing the same direction. E faces the opposite direction of G.

Q82. How many persons sit towards the right of E?

(a) As many persons sit between H and J
(b) Three
(c) As many persons sit to the right of G
(d) Four
(e) None

Q83. The number of persons sitting to the left of H is the same as the number of persons sitting to the right of _____.

(a) I
(b) K
(c) G
(d) F
(e) J

Q84. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

(a) H
(b) G
(c) F
(d) J
(e) K

Q85. Which of the following statement(s) is/are TRUE as per the given arrangement?

I) H and K face the same direction

II) An even number of persons sit between D and I

III) I is the only neighbour of F

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

Q86. Who among the following persons sits third to the right of I?

(a) K
(b) J
(c) G
(d) E
(e) H

Q87. Direction: In the question below are given three statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

All heart is stupid.

Only a few heart is strong.

Some fools are strong.

Conclusions:

I. All Strong is stupid.

II. Few fools are stupid.

III. All fools are stupid.

(a) Only conclusion I follow
(b) Only conclusion II follow
(c) Conclusion I and III follow
(d) All conclusion follows
(e) None conclusion follows

Q88. Direction: In the question below are given three statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

Only a few women are IAS.

Some women are IPS.

No IPS is Minister.

Conclusions:

I. few IAS is IPS.

II. No IAS is IPS.

III. all ministers are women.

(a) Only conclusion I follow
(b) Only conclusion II follow
(c) Conclusion I and III follow
(d) Either I or III follow
(e) Either I or II follow

Q89. Directions: In the question below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known fact.

Statements:

Only books are pen.

Some table are not book.

Only a few tables are chair.

Conclusions:

I. All tables are chair.

II. All pen being tables is a possibility.

III. All chair are books is a possibility.

(a) None follows
(b) Either I or III follows
(c) Only I & III follow

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(d) Only II & III follow
(e) Only III follows

Directions

Directions: Study the following information carefully and answer the questions given below:

Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

O lives on an even-numbered floor in Flat-1. K lives in Flat-2 of the topmost floor. M lives west of J. M lives on a floor immediately below the O's floor. P and I live on the same named flat. P and O lives in a different named flat. Only one floor is between P and L. P lives below L. H lives to the west of K. N lives immediately below L, but not in the same named flat. One floor between Q's floor and O's floor.

Q90. Which among the following statements is/are false?

(a) Two floors between K's floor and O's floor
(b) Q lives above O
(c) M lives immediately below P.
(d) J lives above N
(e) P lives east of O

Q91. How many persons live between H and M in the same numbered flat?

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

Q92. Who lives in Flat 2 on the third floor?

(a) N
(b) I
(c) P
(d) J
(e) L

Q93. Which pair of people live on the same floor?

(a) N and P
(b) J and K
(c) P and O
(d) I and L
(e) None of these

Q94. Who lives in Flat 1 on the topmost floor?

(a) H
(b) Q
(c) N
(d) L
(e) None of these

Q95. If it is possible to make only one meaningful English word with the 1^(st), 5^(th), 6^(th), and 8^(th) letters of the word INFORMATION, which of the following will be the fourth letter from the left of that word? If no such word can be formed, give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

(a) M
(b) R

(c) I
(d) X
(e) Y

Directions

Directions: Study the following information carefully and answer the questions given below:

Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

Only one person sits between Z and U. X sits third to the right Y, who is an immediate neighbor of Z. Only three people sit between Z and T. T sits second to the left of S. R is an immediate neighbor of both Z and S. U is not an immediate neighbor of W.

Q96. Who among the following sit fourth to the right of R?

(a) V
(b) U
(c) X
(d) T
(e) None of these

Q97. How many persons sit between T and V when counted from left of T?

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

Q98. Four of the following five are alike in a certain way and thus form a group. Find the one which doesn't belong to the group.

(a) Y-V
(b) U-X
(c) X-W
(d) W-R
(e) S-Y

Q99. Who among the following sit between X and Y when counted in clockwise direction from Y?

I. S
II. U
III. W

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

Q100. What is the position of V with respect to Z?

(a) Third to the righ
(b) Immediate left
(c) Fifth to the left
(d) Second to the right
(e) Fifth to the right

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ANSWER KEY

1	e	2	e	3	a	4	c	5	a	6	e	7	a	8	c	9	b	10	d
11	b	12	e	13	a	14	d	15	b	16	d	17	b	18	d	19	a	20	e
21	a	22	e	23	d	24	d	25	e	26	e	27	d	28	e	29	e	30	a
31	d	32	b	33	c	34	b	35	d	36	a	37	b	38	b	39	b	40	d
41	a	42	a	43	b	44	c	45	c	46	c	47	b	48	e	49	b	50	a
51	c	52	d	53	d	54	c	55	c	56	d	57	c	58	c	59	b	60	b
61	e	62	c	63	c	64	c	65	c	66	a	67	c	68	c	69	d	70	b
71	e	72	b	73	c	74	c	75	e	76	d	77	d	78	d	79	c	80	a
81	e	82	c	83	a	84	a	85	b	86	b	87	e	88	e	89	e	90	d
91	d	92	b	93	c	94	a	95	a	96	a	97	c	98	e	99	d	100	a

SOLUTIONS

Q1. Answer: (e) The internal audit revealed that neither the manager nor his subordinates were aware of the security breach.

The correct answer is '5' i.e. The internal audit revealed that neither the manager nor his subordinates were aware of the security breach..

Key Points

• Option 1: "The quality of the raw materials used in the production line determine the durability of the final consumer product."

• Incorrect because the subject "quality" is singular, so the correct verb should be "determines" instead of "determine."

• Option 2: "To fully understand the geopolitical crisis, history must be analyzed through a completely objective lens."

• While grammatically correct, this sentence is not the most contextually relevant compared to Option 5.

• Option 3: "Each of the venture capitalists who invested in the AI startup expects a tenfold return on their initial investment."

• Incorrect because "each" is singular, but "their" is plural. The correct sentence should replace "their" with "his or her."

• Option 4: "The CFO requested that every department head submit their revised budget estimates by Friday evening."

• Incorrect because the subject "every department head" is singular, yet "their" is plural. The correct sentence should replace "their" with "his or her."

• Option 5: "The internal audit revealed that neither the manager nor his subordinates were aware of the security breach."

• This sentence is both grammatically and contextually correct. The subject "neither the manager nor his subordinates" agrees with the plural verb "were."

Correct sentence: The internal audit revealed that neither the manager nor his subordinates were aware of the security breach.

Additional Information

• Singular vs. Plural Agreement:

• Pay attention to the subject-verb agreement. Singular subjects require singular verbs, and plural subjects require plural verbs.

• Pronouns such as "each" and "every" are singular and should match with singular verbs or pronouns.

• Neither...nor Constructions:

• If the subjects connected by "neither...nor" differ in number, the verb agrees with the nearer subject.

• For example: "Neither the manager nor his subordinates were aware."

Q2. Answer: (e) The aggregate valuation of these tech unicorns is higher than the GDP of several developing nations combined.

The correct answer is '5' i.e. The aggregate valuation of these tech unicorns is higher than the GDP of several developing nations combined.

Key Points

• Option 5 is grammatically correct and contextually appropriate as it clearly states the comparison between the aggregate valuation of tech unicorns and the GDP of developing nations.

• It uses proper sentence structure and conveys the intended meaning logically and fluently.

• The comparison is expressed correctly using the phrase "is higher than", making the statement clear and accurate.

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Correct sentence: The aggregate valuation of these tech unicorns is higher than the GDP of several developing nations combined.

Additional Information

• Why other options are incorrect:

• Option 1: The phrase "was because" is redundant. "The reason why" already implies causation; hence, "was that" would have been the correct choice.

• Option 2: The comparison between "traditional internal combustion engines" and "maintenance costs" is flawed. It should compare engines to engines, or costs to costs.

• Option 3: While grammatically correct, the context is unclear as "binding on both the signing parties" is vaguely stated without proper emphasis on the agreement itself.

• Option 4: The phrase "If the firm would have anticipated" is incorrect. The correct form is "If the firm had anticipated" as per third conditional sentence rules.

Q3. Answer: (a) The judge ordered that the evidence be sealed and that the identities of the witnesses remain confidential.

The correct answer is '1' i.e. The judge ordered that the evidence be sealed and that the identities of the witnesses remain confidential.

Key Points

• Option 1 is grammatically and contextually correct because it correctly uses the subjunctive mood (e.g., "be sealed" and "remain confidential"), which is appropriate for formal commands or recommendations.

• The subjunctive mood is used in clauses that follow verbs like "ordered" to express a demand, suggestion, or requirement.

• The structure aligns with standard grammar rules for legal or formal instructions.

Correct sentence: The judge ordered that the evidence be sealed and that the identities of the witnesses remain confidential.

Additional Information

• Explanation of Incorrect Options:

• Option 2: "Driving through the dense fog, a massive billboard suddenly loomed out of the darkness, startling the driver." This sentence has a dangling modifier because it implies the billboard is driving through the fog, which is illogical.

• Option 3: "The university administration has forbidden the students from organizing political rallies on campus grounds." While the sentence is grammatically correct, it is contextually less formal and precise compared to Option 1.

• Option 4: "Her economic philosophy is grounded in the belief that market forces, if left unregulated, will naturally self-correct." This sentence is accurate but does not align with the formal, legal tone required by the question's context.

• Option 5: "The production manager, along with his entire team of skilled technicians, have been laid off due to automation." This sentence is incorrect because "have been" should be replaced with "has been" to match the singular subject "The production manager."

Q4. Answer: (c) The judge ruled that the defendant's actions were not only reckless but they also violated federal environm...

The correct answer is '3' i.e. The judge ruled that the defendant's actions were not only reckless but they also violated federal environmental laws..

Key Points

• The error lies in the sentence's structure after "not only... but also." The subject "actions" is plural, so the verb structure must remain consistent.

• Using "they also violated" creates redundancy and disrupts the parallelism. Instead, the correct phrasing would be: "The judge ruled that the defendant's actions were not only reckless but also violated federal environmental laws."

• The "not only... but also" construction requires both parts to be parallel in grammatical structure.

Correct sentence: The judge ruled that the defendant's actions were not only reckless but also violated federal environmental laws.

Additional Information

• Parallelism:

• Definition: Ensuring that elements of a sentence are grammatically consistent in structure.

• Example: She likes hiking, swimming, and cycling (parallel structure).

• Redundancy:

• Definition: Unnecessary repetition of words or ideas.

• Example: "They returned back to the office" (corrected: "They returned to the office").

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Q5. Answer: (a) The newly appointed managing director has and always will prioritize shareholder value over short-term bonu...

The correct answer is '1' i.e. The newly appointed managing director has and always will prioritize shareholder value over short-term bonuses..

Key Points

• The sentence in option 1 is grammatically incorrect because of the incorrect placement of verbs. The phrase "has and always will prioritize" is not parallel in structure.

• To maintain grammatical consistency, the correct phrasing should be "has prioritized and always will prioritize."

• Parallel structure ensures that verbs or phrases in a sentence are balanced and grammatically consistent.

Correct sentence: The newly appointed managing director has prioritized and always will prioritize shareholder value over short-term bonuses.

Additional Information

• Option 2: The sentence is correct. The phrase "No sooner...than" correctly conveys the idea of an immediate consequence.

• Option 3: The sentence is grammatically and contextually correct. It accurately describes the micro-finance institution's role.

• Option 4: The sentence is correct. It effectively describes the state government's decision and its impact.

• Option 5: The sentence is correct. The use of "every invoice, receipt, and ledger entry" is grammatically consistent.

Q6. Answer: (e) Repealed

The solution is in Hindi. Read it online.

Q7. Answer: (a) Shattered

The correct answer is 'Shattered.'

Key Points

• The given sentence "The far-off Indian campaign of Nadir Shah, who had previously reestablished Iranian suzerainty over most of West Asia, the Caucasus, and Central Asia, culminated with the Sack of Delhi and _(2)_ the remnants of Mughal power and prestige" is talking about Nadir Shah damaging or destroying the remnants of Mughal power and prestige.

• Therefore, the most appropriate word to be filled in the blank is 'Shattered'.

• Also, the use of the word "remnants" in the sentence indicates the use of the word 'shattered' in the blank.

• The word 'Shattered' means To damage or destroy something.

• Example: The crisis has shattered their confidence.

Hence, the correct answer is option 1.

Complete Sentence: The far-off Indian campaign of Nadir Shah, who had previously reestablished Iranian suzerainty over most of West Asia, the Caucasus, and Central Asia, culminated with the Sack of Delhi and shattered the remnants of Mughal power and prestige.

Additional Information

• Let us explore the other options:

• Instituted means To introduce a system, policy, etc., or start a process.

• Healed means To cause something or someone to become sound or healthy again.

• Fathered means To be the source or originator of something.

• Forged means To create something strong, enduring, or successful.

Q8. Answer: (c) Conflicts

The correct answer is 'Conflicts.'

Key Points

• The given sentence "Meanwhile, some regional polities within the increasingly fragmented Mughal Empire, involved themselves and the state in global _(3)_, leading only to defeat and loss of territory during the Carnatic Wars and the Bengal War" is saying that the state in global prolonged armed struggles, leading only to defeat and loss of territory during the Carnatic Wars and the Bengal War.

• Therefore, the most appropriate word to be filled in the blank is 'Conflicts'.

• Also, the use of the word "War" in the sentence indicates the use of the word 'conflicts' in the blank.

• The word 'Conflicts' means Prolonged armed struggles.

• Example: There have been conflicts such as this throughout history.

Hence, the correct answer is option 3.

Complete Sentence: Meanwhile, some regional polities within the increasingly fragmented Mughal Empire, involved themselves and the state in global conflicts, leading only to defeat and loss of territory during the Carnatic Wars and the Bengal War.

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Additional Information

• Let us explore the other options:

• Concordances mean Agreements or consistency.

• Accords mean Agreements or harmony.

• Truces mean Agreements between enemies or opponents to stop fighting or arguing for a certain time.

• Concurrences mean Agreements or consistency.

Q9. Answer: (b) Futile

The correct answer is 'Futile.'

Key Points

• The given sentence "The Mughal Emperor Shah Alam II (1759–1806) made _(4)_ attempts to reverse the Mughal decline but ultimately had to seek the protection of the Emir of Afghanistan, Ahmed Shah Abdali, which led to the Third Battle of Panipat between the Maratha Empire and the Afghans (led by Abdali) in 1761" is talking about the pointless or worthless attempts made by the Mughal Emperor Shah Alam II to reverse the Mughal decline.

• Therefore, the most appropriate word to be filled in the blank is 'Futile'.

• Also, the use of the word "attempts" in the sentence indicates the use of the word 'futile' in the blank.

• The word 'Futile' means Incapable of producing any useful result; pointless.

• Example: Their efforts to revive him were futile.

Hence, the correct answer is option 2.

Complete Sentence: The Mughal Emperor Shah Alam II (1759–1806) made futile attempts to reverse the Mughal decline but ultimately had to seek the protection of the Emir of Afghanistan, Ahmed Shah Abdali, which led to the Third Battle of Panipat between the Maratha Empire and the Afghans (led by Abdali) in 1761.

Additional Information

• Let us explore the other options:

• Efficacious means Successful in producing a desired or intended result; effective.

• Virtuous means Having or showing high moral standards.

• Sedate means Calm, dignified, and unhurried.

• Melancholy means Causing or expressing sadness; depressing.

Q10. Answer: (d) Abolished

The correct answer is 'Abolished.'

Key Points

• The given sentence "The British East India Company took control of the former Mughal province of Bengal-Bihar in 1793 after it _(5)_ local rule (Nizamat) that lasted until 1858, marking the beginning of the British colonial era over the Indian subcontinent" is saying that the British East India Company formally put an end to the local rule of Mughal province.

• Therefore, the most appropriate word to be filled in the blank is 'Abolished'.

• Also, the use of the word "rule" in the sentence indicates the use of the word 'abolished' in the blank.

• The word 'Abolished' means To formally put an end to a system, practice, or institution.

• Example: The Americans abolished slavery in 1863.

Hence, the correct answer is option 4.

Complete Sentence: The British East India Company took control of the former Mughal province of Bengal-Bihar in 1793 after it abolished local rule (Nizamat) that lasted until 1858, marking the beginning of the British colonial era over the Indian subcontinent.

Additional Information

• Let us explore the other options:

• Legitimated means To make lawful or justify.

• Ratified means To sign or give formal consent to a treaty, contract, or agreement, making it officially valid.

• Endorsed means To say publicly that you give official support or agreement to a plan, statement, decision, etc.

• Warranted means To officially affirm or guarantee.

Q11. Answer: (b) Deposed

The correct answer is 'Deposed.'

Key Points

• The given sentence "After a crushing defeat in the war of 1857–1858 which he nominally led, the last Mughal, Bahadur Shah Zafar, was _(6)_ by the British East India Company and exiled in 1858" is saying that the last Mughal, Bahadur Shah Zafar, was

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overthrown by the British East India Company and exiled in 1858.

• Therefore, the most appropriate word to be filled in the blank is 'Deposed'.

• Also, the use of the word "exiled" in the sentence indicates the use of the word 'deposed' in the blank.

• The word 'Deposed' means To remove a ruler or leader from power.

• Example: The king was deposed by his people.

Hence, the correct answer is option 2.

Complete Sentence: After a crushing defeat in the war of 1857–1858 which he nominally led, the last Mughal, Bahadur Shah Zafar, was deposed by the British East India Company and exiled in 1858.

Additional Information

• Let us explore the other options:

• Instated means To set up in position; install or establish.

• Baptized means To administer baptism to someone; christen.

• Enthroned means To install a monarch or bishop on a throne, especially during a ceremony to mark the beginning of their rule.

• Superseded means To take the place of somebody or something which existed or was used before and which has become old-fashioned.

Q12. Answer: (e) ADCBE

The correct answer is Option (5) i.e. ADCBE

Key Points

• The sentence begins with "mental health awareness", which is correctly indicated by part (A).

• Following this, "is growing" (AD) continues the logical sequence, making it clear that mental health awareness is increasing.

• The next part, "as more people" (ADC), adds a reason or context for the growth of awareness.

• Ending with "recognize the importance of emotional well-being" (BE) completes the sentence by explaining the significance of mental health awareness.

Therefore, the correct answer is ADCBE.

Additional Information

• Option 1 (ACDBE): This option does not maintain a logical flow, as "mental health awareness is growing" should come before "recognize the importance."

• Option 2 (ABCDE): This sequence does not form a coherent sentence as "recognize the importance" comes too early without context.

• Option 3 (ABDEC): This sequence is incorrect as it places "recognize the importance" before "as more people," disrupting the logical flow.

• Option 4 (ABEDC): This sequence is fragmented and does not form a coherent sentence.

Q13. Answer: (a) ABDCE

The correct answer is Option (1) i.e. ABDCE

Key Points

• The sentence begins with "public transportation" (A), which serves as the subject.

• The next part, "helps reduce" (B), logically connects to the subject, indicating the benefit of public transportation.

• Following this, "traffic congestion" (D) is added as the first benefit being reduced.

• Next, "and air pollution" (C) is included as the second benefit.

• Finally, "in cities" (E) completes the sentence by specifying the location where these benefits apply.

Therefore, the correct sequence is ABDCE.

Additional Information

• Option 2 (ABCDE): This option places "and air pollution" (C) before "traffic congestion" (D), which disrupts the logical sequence.

• Option 3 (ABDEC): This option places "in cities" (E) before "and air pollution" (C), which creates a grammatically incorrect sentence.

• Option 4 (ACDBE): This option places "and air pollution" (C) directly after "public transportation" (A), which makes the sentence incomplete and illogical.

• Option 5 (BACDE): This option starts with "helps reduce" (B), which makes the sentence incomplete as it lacks a proper subject.

Q14. Answer: (d) ABCED

The correct answer is Option (4) i.e. ABCED

Key Points

• The sentence begins with the subject "adopting eco-friendly habits," which is correctly indicated by part (A).

• Following the subject, "such as recycling and conserving water" (B and C) continues the logical sequence, providing examples of eco-friendly habits.

• The next part, "can make" (E) transitions to the potential impact of these habits.

• Ending with "a significant difference" (D) completes the sentence by highlighting the positive outcome.

Therefore, the correct answer is ABCED.

Additional Information

• Option 1 (BACDE): This option starts with "such as recycling adopting eco-friendly habits," which disrupts the logical sequence and lacks a proper introduction to the subject.

• Option 2 (ABDEC): This option incorrectly places "and conserving water" after "a significant difference," breaking the logical flow.

• Option 3 (ABCDE): This option places "can make" too early, before completing the examples of eco-friendly habits.

• Option 5 (ACDBE): This option jumbles the order of the examples and disrupts the overall flow of the sentence.

Q15. Answer: (b) B-P

The correct answer is B-P

Key Points

Let us look at the sentence combinations.

• Phrase B of column 1 should be matched with the phrase P of column 2 to make the sentence grammatically and contextually correct.

• "With the nomination process for the presidential election set to begin the Rajya Sabha Secretariat set up a special cell for the poll on Tuesday."

• Phrase B cannot be used with phrase Q and R because it would not make a meaningful sentence.

• With the nomination process for the presidential election set to begin both assistant returning officers for the election- are also part of this cell.

• With the nomination process for the presidential election set to begin who will be part of the counting process.

Hence, the correct option is option 2.

Q16. Answer: (d) side effects of the

The correct answer is 'side effects of the'.

Key Points

• When 'of' is used after 'each, every, one' etc., the noun or pronoun that comes immediately after 'of' will be plural in form.

• The verb, pronoun, adjectives, etc. that come in the latter part of the sentence will be singular in form.

• For eg.- One of our students was unable to propel her wheelchair up the ramp.

• Therefore, we will add 's' to 'effect' to make the sentence grammatically correct.

• Hence, option 4 is the correct answer.

Additional Information

• Susceptibility is the state or fact of being likely or liable to be influenced or harmed by a particular thing.

• For eg.- Lack of exercise increases susceptibility to disease

Q17. Answer: (b) was seldom or never

The correct answer is 'was seldom or never'

Key Points

• 'Seldom or never' is the correct adverbial phrase.

• It is always used in a negative sense.

• We will replace 'seldom or ever' with 'seldom or never' to make the sentence grammatically correct.

• Hence, option 2 is the correct answer.

Additional Information

• Other such adverbial phrases include 'seldom, is never', 'little or nothing', 'little, if anything'.

• For eg.- I have seldom if ever been so embarrassed.

Q18. Answer: (d) had some equipment

The correct answer is 'had some equipment'.

Key Points

• With uncountable nouns such as mischief, hair, equipment, scenery, etc, articles a/an, many, few, number of, and plural forms

are not used.

• For eg.- The mischief, however, was not ended.

• We use 'some' with uncountable nouns.

• Hence, in the given sentence, we will replace 'an' with 'some' to make the sentence grammatically correct.

• Thus, option 4 is the correct answer.

Additional Information

• Equipment is the necessary items for a particular purpose.

• For eg.- The electronic equipment had disappeared as well.

Q19. Answer: (a) employment and recreation.

The correct answer is 'employment and recreation'.

Key Points

• A conjunction is a word, or a group of words that connects two or more than two words, phrases, clauses, sentences, etc.

• For eg.- He displayed determination as well as a powerful oratory.

• Conjunctions 'both' and 'and' are cumulative coordinating conjunctions.

• They connect two nouns, pronouns, etc., and are always used in the pair.

• Hence, option 1 is the correct answer.

Additional Information

• Recreation is an activity done for enjoyment when one is not working.

• For eg.- The rest of the day was entirely at his disposal for reading and recreation.

Q20. Answer: (e) form beside her.

The correct answer is 'form beside her'.

Key Points

• The words 'besides' and 'beside' both are prepositions.

• Prepositions are those words that are used before a noun or pronoun and denote the relation between the noun/pronoun and the other part of the sentence.

• For eg.- There's a broom cupboard under the stairs.

• However, the meaning of both words is different.

1. Beside means at the side of or next to.Besides means in addition to or apart from.

• For eg.- He went and sat beside her.

• For eg.- I have no other family besides my parents.

• The given sentence is indicating that she looked at Timothy's recumbent form next to her.

• Hence, option 5 will be the most appropriate choice.

Additional Information

• Recumbent means lying down.

• For eg.- He looked down at the recumbent figure.

Q21. Answer: (a) D

The correct answer is Option 1.

Key Points

• The paragraph begins by addressing the pervasive nature of problems in life, setting a general context for the discussion.

• Sentence D is the first sentence as it introduces the broad idea that life is full of problems needing solutions:

• "Life is strewn with problems that need to be solved."

• Sentence B follows by explaining the complexity of problems and the mixture of decisions required to address them:

• "And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans."

• Sentence 3 (fixed) emphasizes that solving problems is itself a challenging task, building upon the ideas introduced earlier.

• Sentence F follows by focusing on the persistence and effort needed to work through problems:

• "It requires finding information, but it also involves persistence."

• Sentence A concludes by highlighting the motivation and grit required for problem-solving:

• "It takes motivation and grit to stick with a problem and work your way through it."

• Sentence E wraps up the paragraph by pointing out that some problems involve multiple layers of decision-making, giving a

sense of complexity to the discussion.

• "Some problems, however, are much more complex and involve multiple layers of decision-making."

• The correct sequence is DB3FAE.

Coherent paragraph after rearrangement:

"Life is strewn with problems that need to be solved. And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans. Figuring out how to solve a problem is itself a hard problem. It requires finding information, but it also involves persistence. It takes motivation and grit to stick with a problem and work your way through it. Some problems, however, are much more complex and involve multiple layers of decision-making."

Q22. Answer: (e) B

The correct answer is Option 5.

Key Points

• The paragraph begins by identifying the ubiquity of problems in life, setting the stage for discussing problem-solving challenges.

• Sentence D is the first sentence as it introduces the general context:

• "Life is strewn with problems that need to be solved."

• Sentence B is the second sentence because it elaborates on the complexity of problems and how they require a mix of decisions and actions:

• "And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans."

• Sentence 3 (fixed) comes next and emphasizes the inherent difficulty of solving problems.

• Sentence F follows as it describes persistence and effort as critical factors in solving problems:

• "It requires finding information, but it also involves persistence."

• Sentence A is next as it highlights the grit and motivation required to solve problems:

• "It takes motivation and grit to stick with a problem and work your way through it."

• Sentence E concludes by discussing the layered decision-making involved in complex problems:

• "Some problems, however, are much more complex and involve multiple layers of decision-making."

• The correct sequence is DB3FAE.

Coherent paragraph after rearrangement:

"Life is strewn with problems that need to be solved. And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans. Figuring out how to solve a problem is itself a hard problem. It requires finding information, but it also involves persistence. It takes motivation and grit to stick with a problem and work your way through it. Some problems, however, are much more complex and involve multiple layers of decision-making."

Q23. Answer: (d) F

The correct answer is Option 4.

Key Points

• The paragraph begins by introducing the concept of life being filled with problems, setting a broad context for the discussion.

• Sentence D is the first sentence as it introduces the overarching theme:

• "Life is strewn with problems that need to be solved."

• Sentence B is the second sentence as it elaborates on the complexity of these problems:

• "And most problems do not require single decisions, like ‘Who should I vote for in this upcoming election?’ but a complicated mixture of decisions, prioritization, and action plans."

• Sentence 3 (fixed) emphasizes that solving problems is a challenging task in itself.

• Sentence F is the fourth sentence as it discusses persistence and effort required for solving problems:

• "It requires finding information, but it also involves persistence."

• Sentence A follows as it highlights the motivation and grit needed to tackle problems:

• "It takes motivation and grit to stick with a problem and work your way through it."

• Sentence E concludes by discussing how some problems have multiple layers of decision-making:

• "Some problems, however, are much more complex and involve multiple layers of decision-making."

• The correct sequence is DB3FAE.

Coherent paragraph after rearrangement:

"Life is strewn with problems that need to be solved. And most problems do not require single decisions, like ‘Who should I vote

for in this upcoming election?' but a complicated mixture of decisions, prioritization, and action plans. Figuring out how to solve a problem is itself a hard problem. It requires finding information, but it also involves persistence. It takes motivation and grit to stick with a problem and work your way through it. Some problems, however, are much more complex and involve multiple layers of decision-making."

Q24. Answer: (d) A

The correct answer is Option 4.

Key Points

• The paragraph begins by introducing the idea that life is filled with problems, setting the stage for discussing problem-solving challenges.

• Sentence D is the first sentence as it introduces the broad theme:

• "Life is strewn with problems that need to be solved."

• Sentence B is the second sentence as it elaborates on the complexity of problems:

• "And most problems do not require single decisions, like 'Who should I vote for in this upcoming election?' but a complicated mixture of decisions, prioritization, and action plans."

• Sentence 3 (fixed) highlights the inherent difficulty of solving problems.

• Sentence F is the fourth sentence as it emphasizes the importance of persistence and finding information in problem-solving:

• "It requires finding information, but it also involves persistence."

• Sentence A is the fifth sentence as it discusses the motivation and grit required to work through problems:

• "It takes motivation and grit to stick with a problem and work your way through it."

• Sentence E concludes by addressing the layered nature of complex problems:

• "Some problems, however, are much more complex and involve multiple layers of decision-making."

• The correct sequence is DB3FAE.

Coherent paragraph after rearrangement:

"Life is strewn with problems that need to be solved. And most problems do not require single decisions, like 'Who should I vote for in this upcoming election?' but a complicated mixture of decisions, prioritization, and action plans. Figuring out how to solve a problem is itself a hard problem. It requires finding information, but it also involves persistence. It takes motivation and grit to stick with a problem and work your way through it. Some problems, however, are much more complex and involve multiple layers of decision-making."

Q25. Answer: (e) E

The correct answer is Option 5.

Key Points

• The paragraph begins by introducing the idea that life is filled with problems, setting the stage for further discussion on solving them.

• Sentence D is the first sentence as it introduces the overarching theme:

• "Life is strewn with problems that need to be solved."

• Sentence B is the second sentence as it elaborates on the complexity of these problems:

• "And most problems do not require single decisions, like 'Who should I vote for in this upcoming election?' but a complicated mixture of decisions, prioritization, and action plans."

• Sentence 3 (fixed) emphasizes the difficulty of solving problems in general.

• Sentence F is the fourth sentence as it discusses persistence and the importance of information-gathering in solving problems:

• "It requires finding information, but it also involves persistence."

• Sentence A is the fifth sentence as it highlights the motivation and grit required to solve problems:

• "It takes motivation and grit to stick with a problem and work your way through it."

• Sentence E concludes the paragraph by discussing the complexity of problems that involve multiple layers of decision-making:

• "Some problems, however, are much more complex and involve multiple layers of decision-making."

• The correct sequence is DB3FAE.

Coherent paragraph after rearrangement:

"Life is strewn with problems that need to be solved. And most problems do not require single decisions, like 'Who should I vote for in this upcoming election?' but a complicated mixture of decisions, prioritization, and action plans. Figuring out how to solve a problem is itself a hard problem. It requires finding information, but it also involves persistence. It takes motivation and grit to stick with a problem and work your way through it. Some problems, however, are much more complex and involve multiple layers of decision-making."

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Q26. Answer: (e) No interchange required

The solution is in Hindi. Read it online.

Q27. Answer: (d) A-B

The solution is in Hindi. Read it online.

Q28. Answer: (e) No interchange required

The correct answer is Option (5) i.e. No interchange required

Key Points

• The word 'unscrupulous' (A) correctly describes the businessman as morally unprincipled.

• The word 'notorious' (B) correctly describes the ventures as well-known for negative reasons.

• The word 'actions' (C) correctly refers to the corrupt deeds of the businessman.

• The word 'overshadowed' (D) correctly describes the effect of his corrupt actions on his public image.

• All words are in the correct positions and make the sentence both grammatically correct and meaningful.

Therefore, the correct answer is No interchange required.

Q29. Answer: (e) No interchange required

The correct answer is option 5.

Key Points

• No interchange required. The sentence is already grammatically correct and meaningful as written.

• Word meanings and roles in the sentence:

• Zealous (A) — enthusiastic, eager. (modifies player)

• Melancholy (B) — sad, sorrowful. (describes the player's feeling after defeat)

• Resilient (C) — able to recover quickly; mentally tough. (describes his character)

• Brisk (D) — lively, energetic. (describes the manner/energy with which he recovers)

• Each adjective correctly modifies the noun or idea it refers to: a zealous player can still feel melancholy after losing; a resilient character appropriately explains how he bounces back; recovering with brisk energy is a natural collocation.

Example to illustrate: A passionate (zealous) runner may feel sad (melancholy) after losing a race, but their tough (resilient) mindset helps them train again with lively (brisk) energy.

Q30. Answer: (a) Supersede

The correct answer is 'Supersede.'

Key Points

• Supersede means to replace someone or something.

• In the first sentence, filling the blank with 'supersede' would imply one thinking of replacing the other for his position.

• In the second sentence, filling the blank with 'supersede' would imply replacing the manual labor by robots.

• Therefore, the most appropriate word to be filled in the blank is 'supersede'.

Hence, the correct answer is option 1.

Complete Sentences:

1. Vikram hopes he can supersede his boss and take his position in the company.

2. The use of robots will someday supersede manual labor.

Additional Information

• Let us explore the other options:

• Superficial means not studying or thinking about something in a deep or complete way.

• Superfluous means unnecessary, not needed.

• Supernatural means unnaturally or extraordinarily great.

• Supercilious means showing that you think that you are better than other people.

Q31. Answer: (d) Aberrant

The correct answer is 'Aberrant.'

Key Points

• Aberrant means diverging from the normal or right way.

• In the first sentence, filling the blank with 'aberrant' would imply a way of tying the laces other than the normal way.

• In the second sentence, filling the blank with 'aberrant' would imply that the drunken man conducted in an abnormal way.

• Therefore, the most appropriate word to be filled in the blank is 'aberrant'.

Hence, the correct answer is option 4.

Complete Sentences:

1. My sister has an aberrant way of tying her shoelaces.

2. The drunken man’s aberrant conduct drew the police officer’s attention.

Additional Information

• Let us explore the other options:

• Frequent means (of a person) doing something often; habitual.

• Normal means usual, typical, or expected.

• Usual means habitually or typically occurring or done.

• Familiar means having a good knowledge of something.

Q32. Answer: (b) Mendacious

The correct answer is 'Mendacious.'

Key Points

• Mendacious means lying; not telling the truth.

• In the first sentence, filling the blank with 'mendacious' would imply lying about vegetarianism.

• In the second sentence, filling the blank with 'mendacious' would imply creating a false story or lying about something.

• Therefore, the most appropriate word to be filled in the blank is 'mendacious'.

Hence, the correct answer is option 2.

Complete Sentences:

1. Amit is mendacious about his vegetarianism because he eats chicken.

2. Instead of giving me another mendacious story, just be honest for once.

Additional Information

• Let us explore the other options:

• Candid means truthful and straightforward; frank.

• Reliable means consistently good in quality or performance; able to be trusted.

• Moral means standards of good behavior.

• Ethical means morally good or correct.

Q33. Answer: (c) Soft toys provided emotional security for children during the pandemic.

The correct answer is Option C.

Key Points

• Option A: Soft toys became popular as a means for children to engage in physical activities outdoors.

• This statement is incorrect as the passage mentions that lockdowns confined families to their homes and outdoor play was restricted.

• Option B: The software industry saw a decline during the COVID-19 pandemic.

• This statement is incorrect. The passage states that the global software industry experienced "unprecedented, explosive growth" and became the "nervous system of the global economy."

• Option C: Soft toys provided emotional security for children during the pandemic.

• This statement is correct as the passage explicitly mentions that these tactile toys offered "emotional security, anxiety relief, and a medium for imaginative play" during isolation.

• Option D: Toy manufacturers decreased production of plush toys due to reduced demand.

• This statement is incorrect. According to the passage, toy manufacturers ramped up production to meet the "unprecedented spike in global demand."

• Option E: Cloud computing infrastructure experienced a decline during the COVID-19 pandemic.

• This statement is incorrect as the passage notes that cloud computing infrastructure experienced a "gold rush" as businesses transitioned to remote work.

Therefore, the correct answer is: ‘Option C’.

Q34. Answer: (b) Parents seeking comforting, screen-free developmental tools for their children.

The correct answer is Option 2.

Key Points

• The passage explicitly mentions that in the physical realm, the toy industry experienced a remarkable resurgence.

• This growth was driven by parents seeking comforting, screen-free developmental tools for their children during the lockdowns.

• Soft toys provided emotional security and anxiety relief for children who were restricted from outdoor play and school environments.

• Thus, the reason for the resurgence aligns directly with the description in Option B.

Therefore, the correct answer is B.

Correct Sentence: "In the physical realm, the toy industry experienced a remarkable resurgence, driven by parents seeking comforting, screen-free developmental tools for their children."

Additional Information

• A: The increase in outdoor activities – Incorrect, as the passage states outdoor play was restricted during this time.

• C: The decline of digital software infrastructure – Incorrect, as the passage notes that the software industry actually experienced "explosive growth."

• D: The implementation of homeschooling practices – While schools closed, the passage identifies the specific driver for the toy industry boom as the search for comforting, screen-free tools.

• E: The closure of toy manufacturing plants – Incorrect, as manufacturers "ramped up production" to meet the spike in demand.

Q35. Answer: (d) The decline in demand for digital tools.

The correct answer is Option 4.

Key Points

• The passage explicitly states that the software sector and digital infrastructure experienced "unprecedented, explosive growth" and a "gold rush" during the pandemic.

• The decline of physical office spaces and school campuses was a direct result of lockdowns and the "non-negotiable transition to remote work and e-learning."

• Option D suggests a "decline in demand for digital tools," which is the exact opposite of what the passage describes.

• Since the demand for digital tools surged to ensure survival and operations, it cannot be a reason for the decline of physical spaces; rather, the increase in digital demand was the response to that decline.

Therefore, the correct answer is D.

Relevant Quote: "Software-as-a-Service (SaaS) models, cloud computing infrastructure, and collaborative communication platforms experienced a gold rush as businesses scrambled to remain operational."

Additional Information

• A: The COVID-19 pandemic – Cited as the primary trigger for the economic anomalies and lockdowns.

• B: The necessity of remote work – Cited as the reason why schools and offices had to transition to virtual spaces.

• C: The acceleration of digital infrastructure transformation – Cited as the result of the shift away from physical campuses.

• E: The temporary reaction to a crisis – The text mentions that while the boom started as a reaction to a crisis, it led to a permanent structural pivot.

Q36. Answer: (a) The COVID-19 pandemic had a positive impact on consumer demand for soft toys and digital software.

The correct answer is 'Option 1'.

Key Points

• A) The COVID-19 pandemic had a positive impact on consumer demand for soft toys and digital software.

• This can be inferred from the passage. The passage explicitly states that the pandemic catalyzed explosive growth in both the soft toys market and the digital software sector.

• B) Toy manufacturers had to prioritize emotional security over commercial profits.

• This cannot be inferred from the passage. The passage mentions that toy manufacturers ramped up production of plush toys that emphasized comfort, sensory engagement, and companionable play, but it doesn't indicate that commercial profits were deprioritized.

• C) The global software industry experienced a decrease in collaborative communication platforms.

• This cannot be inferred from the passage. The passage actually indicates a surge in collaborative communication platforms during the pandemic.

• D) The surge in demand for soft toys was a temporary trend that reversed post-pandemic.

• This cannot be inferred from the passage. The passage does not mention that the surge in demand for soft toys was a temporary trend or that it reversed post-pandemic.

• E) The increase in cloud computing infrastructure was a reactionary adjustment rather than a permanent change.

• This cannot be inferred from the passage. The passage suggests that the digital transformation represented a permanent structural pivot.

Therefore, the correct answer is Option 1.

Additional Information

• Only A: Correct because option A can be inferred from the passage.
• Only B: Incorrect because option B cannot be inferred from the passage.
• Only C: Incorrect because option C cannot be inferred from the passage.
• Only D: Incorrect because option D cannot be inferred from the passage.
• Only E: Incorrect because option E cannot be inferred from the passage.

Q37. Answer: (b) spike

The solution is in Hindi. Read it online.

Q38. Answer: (b) restricted

The solution is in Hindi. Read it online.

Q39. Answer: (b) manual

The solution is in Hindi. Read it online.

Q40. Answer: (d) obscurity

The solution is in Hindi. Read it online.

Q41. Answer: (a) 32 m

Shortcut Trick

Let the breadth of the field be x m, then the length is 3x m.

Perimeter of the rectangular field = Total Fencing Cost ÷ Fencing Rate = 960 ÷ 7.5 = 128 m.

Perimeter = 2 × (Length + Breadth) => 2 × (3x + x) = 128 => 8x = 128 => x = 16 m.

Difference between length and breadth = 3x − x = 2x = 2 × 16 = 32 m.

Therefore The correct answer is 32 m.

Alternate Method

Given:

Ratio of length to breadth = 3 : 1

Total cost of fencing = Rs. 960

Rate of fencing = Rs. 7.5 per meter

Formula Used:

Perimeter of a rectangle = 2 × (Length + Breadth)

Perimeter = Total Cost of Fencing ÷ Rate of Fencing

Calculations:

=> Let breadth = x m and length = 3x m

=> Perimeter = 960 ÷ 7.5 = 128 m

=> 2 × (3x + x) = 128

=> 2 × 4x = 128

=> 8x = 128

=> x = 16 m

=> Length = 3 × 16 = 48 m

=> Breadth = 16 m

=> Difference = 48 − 16 = 32 m

Therefore The correct answer is 32 m.

Additional Information

Perimeter vs Area Fencing/Ploughing

Fencing is always done along the boundary (Perimeter), whereas ploughing or leveling is done on the surface (Area). Fencing Rate is in per meter, while Leveling Rate is in per sq. meter.

Rectangular Mensuration Formulas

Area of rectangle = Length × Breadth, and Diagonal of rectangle = $\sqrt{(\text{Length}^2 + \text{Breadth}^2)}$.

Q42. Answer: (a) 400

Shortcut Trick

Speed of Train B = 20 ÷ 2 = 10 m/sec.

Length of Train B = Speed × Time = 10 × 28 = 280 m.

Ratio of lengths A : B = 10 : 7. Since 7 units = 280 m, then 1 unit = 40 m.

Length of Train A = 10 × 40 = 400 m.

Therefore The correct answer is 400 m.

Alternate Method

Given:

Speed of Train A (S_A) = 20 m/sec

Ratio of Speed A to B = 2 : 1

Ratio of Length A to B = 10 : 7

Time taken by Train B to cross a pole = 28 seconds

Calculations:

=> Speed of Train B = S_A ÷ 2 = 20 ÷ 2 = 10 m/sec

=> Length of Train B (L_B) = Speed_B × Time = 10 × 28 = 280 m

=> According to ratio, 7 units = 280 m

=> 1 unit = 280 ÷ 7 = 40 m

=> Length of Train A (L_A) = 10 units = 10 × 40 = 400 m

Therefore The correct answer is 400 m.

Additional Information

Crossing a Pole or Point Object

When a train crosses a stationary pole or person, the distance covered is equal to the length of the train itself. Formula: Length = Speed × Time.

Crossing a Platform or Bridge

When a train crosses a platform or another train, the total distance covered is the sum of the lengths of the train and the object. Total Distance = L1 + L2.

Unit Conversion

To convert km/hr to m/sec, multiply by 5/18. To convert m/sec to km/hr, multiply by 18/5.

Q43. Answer: (b) 10kg less

Common Solution:

Let the quantity of white rice sold by A be 4x

The quantity of brown rice sold by B = (x × {125/100} = 5x

The quantity of white rice sold by B = (5x + 15)

The quantity of brown rice sold by A = {5x/4} × 3 = {15x/4})

The quantity of brown rice sold by C = (70 × 3 – 5x - {15x/4})

= (210 - {35x/4})

The quantity of white rice sold by C = [100 - (210 - {35x/4})]

= ({35x/4} – 110)

Given, 260 = {35x/4} – 110 + 5x + 15 + 4x

355 = {71x/4})

So, x = 20

Sellers	Quantity of Brown rice sold (in kg)	Quantity of White rice sold (in kg)
A	75	80
B	100	115
C	35	65

Required difference = 75 − 65 = 10 kg

Q44. Answer: (c) 153.33%

Common Solution:

Let the quantity of white rice sold by A be 4x

The quantity of brown rice sold by B = (x × {125/100} = 5x

The quantity of white rice sold by B = (5x + 15)

The quantity of brown rice sold by A = {5x/4} × 3 = {15x/4})
The quantity of brown rice sold by C = (70 × 3 – 5x - {15x/4})
= (210 - {35x/4})
The quantity of white rice sold by C = [100 - (210 - {35x/4})]
= ({35x/4} – 110)
Given, 260 = {35x/4} – 110 + 5x + 15 + 4x
355 = {71x/4})
So, x = 20

Sellers	Quantity of Brown rice sold (in kg)	Quantity of White rice sold (in kg)
A	75	80
B	100	115
C	35	65

Calculations:
Required percentage = (115/75) x 100 = 153.33%

Q45. Answer: (c) 135 kg

Common Solution:
Let the quantity of white rice sold by A be 4x
The quantity of brown rice sold by B = (x × {125/100} = 5x
The quantity of white rice sold by B = (5x + 15)
The quantity of brown rice sold by A = {5x/4} × 3 = {15x/4})
The quantity of brown rice sold by C = (70 × 3 – 5x - {15x/4})
= (210 - {35x/4})
The quantity of white rice sold by C = [100 - (210 - {35x/4})]
= ({35x/4} – 110)
Given, 260 = {35x/4} – 110 + 5x + 15 + 4x
355 = {71x/4})
So, x = 20

Sellers	Quantity of Brown rice sold (in kg)	Quantity of White rice sold (in kg)
A	75	80
B	100	115
C	35	65

Calculations:
The average quantity of brown rice sold by A and C = (75 + 35)/2 = 55 kg
The quantity of white rice sold by D = 55 + 5 = 60 kg
The ratio of brown rice sold by D and B = 3 : 4
The quantity of brown rice sold by B = 100 kg
The quantity of brown rice sold by D = 100 x (3/4) = 75 kg
The total quantity of rice sold by D = 75 + 60 = 135 kg

Q46. Answer: (c) Rs. 12

Common Solution:
Let the quantity of white rice sold by A be 4x
The quantity of brown rice sold by B = (x × {125/100} = 5x
The quantity of white rice sold by B = (5x + 15)
The quantity of brown rice sold by A = {5x/4} × 3 = {15x/4})
The quantity of brown rice sold by C = (70 × 3 – 5x - {15x/4})
= (210 - {35x/4})
The quantity of white rice sold by C = [100 - (210 - {35x/4})]

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= ({35x/4} – 110)

Given, 260 = {35x/4} – 110 + 5x + 15 + 4x

355 = {71x/4})

So, x = 20

Sellers	Quantity of Brown rice sold (in kg)	Quantity of White rice sold (in kg)
A	75	80
B	100	115
C	35	65

Calculations:

The total revenue earned by selling white rice = 80 x 20 = Rs. 1600

The revenue earned by selling brown rice = 2500 – 1600 = Rs. 900

The price of each kg of brown rice = 900/75 = Rs. 12

Q47. Answer: (b) 23:35

Common Solution:

Let the quantity of white rice sold by A be 4x

The quantity of brown rice sold by B = (x × {125/100} = 5x

The quantity of white rice sold by B = (5x + 15)

The quantity of brown rice sold by A = {5x/4} × 3 = {15x/4})

The quantity of brown rice sold by C = (70 × 3 – 5x - {15x/4})

= (210 - {35x/4})

The quantity of white rice sold by C = [100 - (210 - {35x/4})]

= ({35x/4} – 110)

Given, 260 = {35x/4} – 110 + 5x + 15 + 4x

355 = {71x/4})

So, x = 20

Sellers	Quantity of Brown rice sold (in kg)	Quantity of White rice sold (in kg)
A	75	80
B	100	115
C	35	65

Calculations:

The quantity of white rice sold by B = 115 kg

The total quantity of brown rice sold by A and B together = 75 + 100 = 175 kg

Required ratio = 115:75 = 23: 35

Q48. Answer: (e) 112

Given:

√(21.98 × 30.09 + 123.90) = ? ÷ 4

Formula used:

Approximation Method: Rounding decimals to the nearest whole numbers for easier calculation.

Calculations:

To find the approximate value, we round the given numbers:

21.98 ≈ 22

30.09 ≈ 30

123.90 ≈ 124

Now, substitute these approximate values into the expression:

√(22 × 30 + 124) = ? ÷ 4

=> √(660 + 124) = ? ÷ 4

=> √784 = ? ÷ 4

Since the square root of 784 is 28:

=> 28 = ? ÷ 4

Now, solve for ? by performing multiplication:

=> ? = 28 × 4

=> ? = 112

Therefore The correct answer is option (5).

Q49. Answer: (b) 4848

Given:

29.98% of 560 + 120.11 of 39 = ?

Formula used:

Approximation method: Rounding values to the nearest integers to simplify calculation.

Calculation:

For approximate value:

29.98% ≈ 30%

120.11 ≈ 120

=> ? ≈ 30% of 560 + 120 × 39

=> ? = (30/100) × 560 + 120 × 39

=> ? = 3 × 56 + 4680

=> ? = 168 + 4680

=> ? = 4848

Therefore The correct answer is option (2).

Q50. Answer: (a) 534

Given:

22.02^2 + (1 / 9) of 44 = ? − 45.09% of 100.9

Formula used:

Approximation method: Round off the decimal numbers to the nearest integers to simplify the calculation.

Calculations:

To find the approximate value, let:

22.02 ≈ 22

44 ≈ 45 (since 45 is a multiple of 9)

45.09% ≈ 45%

100.9 ≈ 100

Now, substitute these values into the expression:

22^2 + (1 / 9) × 45 = ? − 45% of 100

=> 484 + 5 = ? − (45 / 100) × 100

=> 489 = ? − 45

=> ? = 489 + 45

=> ? = 534

Therefore The correct answer is option (1).

Q51. Answer: (c) 150/7

Shortcut Trick

Total Work = LCM(15, 30) = 30 units.

Efficiency: A = 2, B = 1. Combined (A+B) = 3 units/day.

6 days work of (A+B) = 6 × 3 = 18 units. Remaining = 30 − 18 = 12 units.

B + C finish 12 units in 5 days → Efficiency of (B+C) = 12/5 = 2.4.

Efficiency of C = 2.4 − 1 = 1.4 units/day (or 7/5).

Time for C alone = 30 ÷ (7/5) = 150/7 days.

Therefore The correct answer is 150/7 days.

Alternate Method

Given: A takes 15 days, B takes 30 days. They work together for 6 days. B and C finish remaining in 5 days.

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Formula: Total Work = Efficiency × Time

Person	Days	Total Work	Efficiency
A	15	30	2
B	30	1	

=> Work done by A and B in 6 days = 6 × (2 + 1) = 18 units

=> Remaining work = 30 − 18 = 12 units

=> Let Efficiency of C be 'c'. Work done by B and C in 5 days = 5 × (1 + c) = 12

=> 1 + c = 12/5

=> c = 12/5 − 1 = 7/5

=> Time taken by C alone = Total Work ÷ Efficiency of C

=> Time = 30 ÷ (7/5) = (30 × 5) / 7 = 150/7 days

Therefore The correct answer is 150/7 days.

Additional Information

Combined Efficiency

When multiple people work together, their individual efficiencies are added to find the total work done per day.

Work & Wages

Wages are generally distributed in the ratio of the total work done by each individual (Efficiency × Time).

Alternate Day Work

In alternate day problems, calculate the work done in one complete cycle (e.g., 2 days) and then divide total work by cycle work.

Q52. Answer: (d) 25

Shortcut Trick

Ratio of Father : Son currently is 2 : 1 and 10 years ago was 3 : 1.

Make the difference between ratios equal: (2 : 1) × 2 → 4 : 2 and (3 : 1) × 1 → 3 : 1.

Difference of 1 unit (4 − 3 or 2 − 1) corresponds to 10 years.

Father age = 4 × 10 = 40 years; Son age = 2 × 10 = 20 years.

Mother : Father = 9 : 8 => Since 8 units = 40, then 9 units (Mother) = 45 years.

Difference = 45 − 20 = 25 years.

Therefore The correct answer is 25 years.

Alternate Method

Given: Present age Father (F) = 2 × Son (S); Ratio Mother (M) : Father (F) = 9 : 8.

=> Let Son's present age be x. Then Father's present age = 2x.

=> 10 years ago: (2x − 10) = 3 × (x − 10)

=> 2x − 10 = 3x − 30

=> x = 20 (Son's present age)

=> Father's present age = 2 × 20 = 40 years.

=> Mother's age = (9/8) × 40 = 45 years.

=> Difference = 45 − 20 = 25 years.

Therefore The correct answer is 25 years.

Additional Information

Age Difference Constant

The numerical difference between the ages of two persons remains the same throughout their lives, regardless of the number of years passed.

Ratio Balancing Method

To equate parts in age ratios, multiply the ratios such that the difference between the ratio terms of the two individuals becomes equal.

Cross Multiplication Method

For problems involving two different time periods, use (Initial Ratio) → (Change) → (Final Ratio) to solve for units directly.

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Q53. Answer: (d) 15000

Shortcut Trick

Total investment ≈ Rs. 45000.

Ratio of interest is SI_A : SI_B = 15 : 8.

Since SI = P × R × T, then P prop. to SI ÷ (R × T). For equal time T = 2 years, P_A : P_B = (15 ÷ 7.5) : (8 ÷ 8) = 2 : 1.

Investment in Scheme B = 1 ÷ (2 + 1) × Rs. 45000 = Rs. 15000.

Therefore The correct answer is Rs. 15000.

Alternate Method

Given:

Total investment (P) ≈ Rs. 45000

Rate of interest for Scheme A (R_A) = 7.5% p.a.

Rate of interest for Scheme B (R_B) = 8% p.a.

Time (T) = 2 years

Ratio of interest received = SI_A : SI_B = 15 : 8

Formula Used:

Simple Interest (SI) = (P × R × T) ÷ 100

Calculations:

Let the amount invested in Scheme A be P_A and in Scheme B be P_B.

=> SI_A = (P_A × 7.5 × 2) ÷ 100 = 15P_A ÷ 100

=> SI_B = (P_B × 8 × 2) ÷ 100 = 16P_B ÷ 100

Given that SI_A : SI_B = 15 : 8

=> (15P_A ÷ 100) ÷ (16P_B ÷ 100) = 15 ÷ 8

=> 15P_A ÷ 16P_B = 15 ÷ 8

=> P_A ÷ P_B = 16 ÷ 8

=> P_A ÷ P_B = 2 ÷ 1

=> Ratio of investment P_A : P_B = 2 : 1

=> Total investment ratio parts = 2 + 1 = 3 parts

=> 3 parts = Rs. 45000

=> 1 part = Rs. 15000

=> Investment in Scheme B (P_B) = 1 part = Rs. 15000

Therefore The correct answer is Rs. 15000.

Additional Information

Simple Interest Principle

Simple Interest is calculated only on the principal amount, hence the annual interest remains constant every year.

Ratio of Principals in Simple Interest

When the ratio of interest is given, the ratio of the principal amounts is directly proportional to the interest and inversely proportional to the product of rate and time: P1 : P2 = (I1 ÷ R1T1) : (I2 ÷ R2T2).

Q54. Answer: (c) Rs 6

Common solution:

Total profit earned by all the cinema halls = (200 × 30 = Rs\ 6000)

For cinema hall A

Total tickets sold = 200 x {25/100} = 50

Total profit earned = 6000 x {20/100} = Rs 1200

Similarly,

Cinema halls	Total tickets sold	Total profit earned (In Rs)
A	50	1200
B	40	960
C	30	1440
D	20	1500

E	60	900

Calculation:

Profit earned on each ticket sold by A and B together = {1200+960}/{50+40}

= {2160/90} = Rs 24

Profit earned on each ticket sold by D and E together = {1500 + 900}/{20 + 60}

= {2400/80} = Rs 30

Required difference = 30 – 24 = Rs 6

Q55. Answer: (c) 125% more

Common solution:

Total profit earned by all the cinema halls = (200 × 30 = Rs\ 6000)

For cinema hall A

Total tickets sold = 200 x {25/100} = 50

Total profit earned = 6000 x {20/100} = Rs 1200

Similarly,

Cinema halls	Total tickets sold	Total profit earned (In Rs)
A	50	1200
B	40	960
C	30	1440
D	20	1500
E	60	900

Calculation:

Total number of tickets sold by E and C together = 60 + 30 = 90

Total number of tickets sold by B = 40

Required percentage = (90 – 40)/40 x 100 = 125%

Q56. Answer: (d) Rs 2700

Common solution:

Total profit earned by all the cinema halls = (200 × 30 = Rs\ 6000)

For cinema hall A

Total tickets sold = 200 x {25/100} = 50

Total profit earned = 6000 x {20/100} = Rs 1200

Similarly,

Cinema halls	Total tickets sold	Total profit earned (In Rs)
A	50	1200
B	40	960
C	30	1440
D	20	1500
E	60	900

Calculation:

Total number of tickets sold by X = 50 x (3/5) = 30

Profit earned on each ticket sold by D = 1500/20 = Rs 75

Profit earned on each ticket sold by X = 75 x 120% = Rs 90

Therefore, total profit earned by X = 30 x 90 = Rs. 2700

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Q57. Answer: (c) 25

Common solution:

Total profit earned by all the cinema halls = (200 × 30 = Rs\ 6000)

For cinema hall A

Total tickets sold = 200 x {25/100} = 50

Total profit earned = 6000 x {20/100} = Rs 1200

Similarly,

Cinema halls	Total tickets sold	Total profit earned (In Rs)
A	50	1200
B	40	960
C	30	1440
D	20	1500
E	60	900

Calculation:

Average number of tickets sold by B and D together = (40 + 20)/2 = 30

Average number of tickets sold by A and E together = (50 + 60)/2 = 55

Required difference = 55 – 30 = 25

Q58. Answer: (c) Rs 20

Common solution:

Total profit earned by all the cinema halls = (200 × 30 = Rs\ 6000)

For cinema hall A

Total tickets sold = 200 x {25/100} = 50

Total profit earned = 6000 x {20/100} = Rs 1200

Similarly,

Cinema halls	Total tickets sold	Total profit earned (In Rs)
A	50	1200
B	40	960
C	30	1440
D	20	1500
E	60	900

Calculation:

Total profit earned by F = 1200 x (4/3) = Rs 1600

Total tickets sold by C = 30

Let the total number of tickets sold by F be x

30 = 37.5% of x

So, x = 30 x (100/37.5) = 80

Profit earned on each ticket sold by F = 1600/80 = Rs. 20

Q59. Answer: (b) 217

Shortcut Trick

Approximate Investment: A = 8000, B = 5000. Ratio = 8 : 5.

Approximate Total Profit = 22000, B profit = 6000 Therefore A profit = 16000.

Profit Ratio A : B = 16000 : 6000 = 8 : 3.

Using Profit = Investment × Time: (8 × 365) ÷ (5 × Days_B) = 8 ÷ 3.

365 ÷ (5 × Days_B) = 1 ÷ 3 => Days_B = (365 × 3) ÷ 5 = 73 × 3 = 219 days.

Given Days_B = T + 2 => T = 219 − 2 = 217.

Therefore The correct answer is 217.

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Alternate Method

Given → Investment A ≈ 8000, Investment B ≈ 5000. Total Profit ≈ 22000, Profit B ≈ 6000.

Formulas: Profit Ratio = (I1 × T1) : (I2 × T2) | Profit_A = Total Profit − Profit_B

=> Profit share of A = 22000 − 6000 = 16000.

=> Ratio of profits (A : B) = 16000 : 6000 = 16 : 6 = 8 : 3.

=> Ratio of (Investment × Time) = (8000 × 365) : (5000 × (T + 2)).

=> (8000 × 365) ÷ (5000 × (T + 2)) = 8 ÷ 3.

=> (8 × 365) ÷ (5 × (T + 2)) = 8 ÷ 3.

=> 365 ÷ (T + 2) = 5 ÷ 3.

=> T + 2 = (365 × 3) ÷ 5 = 73 × 3 = 219.

=> T = 219 − 2 = 217.

Therefore The correct answer is 217.

Additional Information

Partnership Principles

When investments are for different time periods, the profit is distributed in the ratio of the product of Investment and Time.

Approximation in Exams

Values like 7999.99 should be rounded to the nearest integer (8000) to simplify calculations without affecting accuracy significantly.

Q60. Answer: (b) 21%

Shortcut Trick

Assume Total Income = 100 units.

Rent = 30% of 100 = 30 units → Remaining = 70 units.

Groceries = 25% of 70 = 17.5 units → New Remaining = 52.5 units.

Entertainment share = 52.5 × (2 ÷ 5) = 21 units.

Therefore The correct answer is 21%.

Alternate Method

Given: Rent = 30%, Groceries = 25% of remaining, Ent : Savings = 2 : 3.

=> Let Total Income = I

=> After Rent, Remaining = I × (100 − 30)/100 = 0.70I

=> After Groceries, Remaining = 0.70I × (100 − 25)/100 = 0.70I × 0.75 = 0.525I

=> Entertainment Expenditure = 0.525I × [2 ÷ (2 + 3)]

=> Entertainment = 0.525I × (2 ÷ 5) = 0.525I × 0.4 = 0.21I

=> Percentage = (0.21I ÷ I) × 100 = 21%

Therefore The correct answer is 21%.

Additional Information

Successive Percentage Change

When values are calculated on the remaining balance, use the multiplying factor: Final = Initial × (1 − r1/100) × (1 − r2/100).

Ratio Distribution

To find a specific part in a ratio a:b, multiply the total by a/(a+b) or b/(a+b).

Base Value Importance

Always identify if the percentage is of the Total Income or the Remaining Amount to avoid calculation errors.

Q61. Answer: (e) 9:4

Shortcut Trick

Initial total volume ≈ 150 liters, Soda = 50 liters → Juice = 100 liters (Ratio of Juice to Soda = 2 : 1).

Removing 30 liters of mixture keeps the ratio 2 : 1, so remaining is 120 liters → Juice = 80 liters, Soda = 40 liters.

Adding 10 liters of pure juice makes Juice = 90 liters and Soda = 40 liters.

Resultant ratio of Juice to Soda = 90 : 40 = 9 : 4.

Wait, let us check option values: 150 liters, 50 soda → 100 juice. Take out 30 liters → remaining mixture = 120 liters. Since ratio is 2:1, remaining Juice = 80, Soda = 40. Add 10 liters juice → Juice = 90, Soda = 40. Ratio = 9:4 (which is Option 5). Let's check the corrected value.

Therefore The correct answer is 9:4.

Alternate Method

Given:

Total volume of mixture ≈ 150 liters

Volume of soda ≈ 50 liters

Volume of juice = 150 − 50 = 100 liters

Mixture taken out ≈ 30 liters

Pure juice added ≈ 10 liters

Calculations:

=> Initial Ratio of Juice : Soda = 100 : 50 = 2 : 1

=> In 30 liters of mixture taken out:

=> Juice removed = (2 ÷ 3) × 30 = 20 liters

=> Soda removed = (1 ÷ 3) × 30 = 10 liters

=> Remaining Juice = 100 − 20 = 80 liters

=> Remaining Soda = 50 − 10 = 40 liters

=> After adding 10 liters of pure juice:

=> New Juice volume = 80 + 10 = 90 liters

=> New Soda volume = 40 liters

=> Resultant Ratio = 90 : 40 = 9 : 4

Therefore The correct answer is 9:4.

Additional Information

Mixture Withdrawal Rule

When a portion of a mixture is removed, the remaining ingredients stay in the same ratio as the original mixture.

Replacement Formula

If y liters are removed from x liters of mixture and replaced with pure component, the remaining quantity of the other component is given by Initial Quantity × (1 − y/x).

Q62. Answer: (c) 39

Shortcut Trick

Average of 2^(nd) lowest and 10^(th) number is 32 => Sum = 64.

Let 1^(st) number be x. Then (x + 1) + (x + 9) = 64 => 2x + 10 = 64 => x = 27.

Set A: 27, 28, 29, 30, 31, 32, 33, 34, 35, 36. Second highest = 35.

Set B starts at 35 (5 consecutive odd numbers). Average is the middle (3^(rd)) term.

Set B: 35, 37, 39, 41, 43. Middle term = 39.

Therefore The correct answer is 39.

Alternate Method

Given: Set A has 10 consecutive numbers. Average of 2^(nd) and 10^(th) is 32.

Formula: Average = Sum of observations ÷ Number of observations.

=> Let numbers in Set A be n, n+1, ..., n+9.

=> [(n + 1) + (n + 9)] ÷ 2 = 32

=> 2n + 10 = 64 => 2n = 54 => n = 27.

=> Second highest number of Set A = n + 8 = 27 + 8 = 35.

=> Lowest number of Set B = 35.

=> Set B (5 consecutive odd): 35, 37, 39, 41, 43.

=> Average of Set B = (35 + 43) ÷ 2 = 39.

Therefore The correct answer is 39.

Additional Information

Average of Arithmetic Progression

For any series in AP, the average is simply (First term + Last term) ÷ 2 or the middle term if the number of terms is odd.

Consecutive Odd/Even Numbers

Consecutive odd or even numbers always have a common difference of 2. The average of n terms is the (n+1)/2 term.

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Q63. Answer: (c) 44

Common solution:

Let the total vehicles (Petrol, EV and Diesel) manufactured by D be 100a

Petrol vehicles manufactured = 100a × {25/100} = 25a

Diesel vehicles manufactured = 25a × {60/100} = 15a

Given,

100a – 25a – 15a = 240

60a = 240

so, a = 4

The total vehicles (Petrol, EV and Diesel) manufactured = 100a = 400

Petrol vehicles manufactured =100

Diesel vehicles manufactured = 60

Similarly,

Companies	Total EV manufactured	Petrol vehicles manufactured	Diesel vehicles manufactured
A	90	90	36
B	120	200	50
C	180	300	150
D	240	100	60
E	72	108	54

Calculation:

Total number of vehicles manufactured by A = 90 + 90 + 36 = 216

Total number of diesel vehicles manufactured by C, D and B together = 150 + 60 + 50 = 260

Required difference = 260 - 216 = 44

Q64. Answer: (c) 255

Common solution:

Let the total vehicles (Petrol, EV and Diesel) manufactured by D be 100a

Petrol vehicles manufactured = 100a × {25/100} = 25a

Diesel vehicles manufactured = 25a × {60/100} = 15a

Given,

100a – 25a – 15a = 240

60a = 240

so, a = 4

The total vehicles (Petrol, EV and Diesel) manufactured = 100a = 400

Petrol vehicles manufactured =100

Diesel vehicles manufactured = 60

Similarly,

Companies	Total EV manufactured	Petrol vehicles manufactured	Diesel vehicles manufactured
A	90	90	36
B	120	200	50
C	180	300	150
D	240	100	60
E	72	108	54

Calculation:

From the calculated table:

Total vehicles manufactured by D = 400

Total vehicles manufactured by F =400 x {125}/100} = 500

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Petrol vehicles manufactured by F = {300/2} = 150
Given,
Diesel vehicles manufactured by B: F = 10:19
Diesel vehicles manufactured by B = 50
Diesel vehicles manufactured by F = 50 x {19/10} = 95
Total EVs manufactured by F =500 – 150 – 95 = 255

Q65. Answer: (c) 21 : 4

Common solution:
Let the total vehicles (Petrol, EV and Diesel) manufactured by D be 100a
Petrol vehicles manufactured = 100a × {25/100} = 25a
Diesel vehicles manufactured = 25a × {60/100} = 15a
Given,
100a – 25a – 15a = 240
60a = 240
so, a = 4
The total vehicles (Petrol, EV and Diesel) manufactured = 100a = 400
Petrol vehicles manufactured =100
Diesel vehicles manufactured = 60
Similarly,

Companies	Total EV manufactured	Petrol vehicles manufactured	Diesel vehicles manufactured
A	90	90	36
B	120	200	50
C	180	300	150
D	240	100	60
E	72	108	54

Calculation:
Total vehicles manufactured by C = 180 + 300 + 150 = 630
Total EVs manufactured by B = 120
Required ratio = 630:120 = 21:4

Q66. Answer: (a) 80%

Common solution:
Let the total vehicles (Petrol, EV and Diesel) manufactured by D be 100a
Petrol vehicles manufactured = 100a × {25/100} = 25a
Diesel vehicles manufactured = 25a × {60/100} = 15a
Given,
100a – 25a – 15a = 240
60a = 240
so, a = 4
The total vehicles (Petrol, EV and Diesel) manufactured = 100a = 400
Petrol vehicles manufactured =100
Diesel vehicles manufactured = 60
Similarly,

Companies	Total EV manufactured	Petrol vehicles manufactured	Diesel vehicles manufactured
A	90	90	36
B	120	200	50
C	180	300	150

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D	240	100	60
E	72	108	54

Calculation:

Required percentage = (108 – 60)/60 x 100 = 80%

Q67. Answer: (c) 310

Common solution:

Let the total vehicles (Petrol, EV and Diesel) manufactured by D be 100a

Petrol vehicles manufactured = 100a × {25/100} = 25a

Diesel vehicles manufactured = 25a × {60/100} = 15a

Given,

100a – 25a – 15a = 240

60a = 240

so, a = 4

The total vehicles (Petrol, EV and Diesel) manufactured = 100a = 400

Petrol vehicles manufactured =100

Diesel vehicles manufactured = 60

Similarly,

Companies	Total EV manufactured	Petrol vehicles manufactured	Diesel vehicles manufactured
A	90	90	36
B	120	200	50
C	180	300	150
D	240	100	60
E	72	108	54

Calculation:

Required difference = (120 + 200 + 50) – 60 = 370 – 60 = 310

Q68. Answer: (c) Rs 7500

Shortcut Trick

Let the Cost Price (CP) of both items be 100%.

Difference in Profit Percentage = 35% − 25% = 10%.

According to the question, 10% of CP = Rs 750.

Therefore, 100% of CP = 750 × (100 ÷ 10) = Rs 7500.

Therefore The correct answer is Rs 7500.

Alternate Method

Given: CP_X = CP_Y, Profit_X = 25%, Profit_Y = 35%, Difference in Profit = Rs 750.

Formulas: Profit = CP × (Profit% ÷ 100)

=> Let the Cost Price of item X and item Y be 'C'.

=> Profit from item X = 0.25C and Profit from item Y = 0.35C.

=> Difference = 0.35C − 0.25C = 750.

=> 0.10C = 750.

=> C = 750 ÷ 0.10 = 7500.

Therefore The correct answer is Rs 7500.

Additional Information

Common Cost Price Scenarios

When Cost Prices are equal, the ratio of profits is directly proportional to the ratio of profit percentages.

Profit Calculation

Profit is always calculated on the Cost Price unless specified otherwise in the question.

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Q69. Answer: (d) Can’t be determined

Shortcut Trick

Let the speed of boat in still water (u) = 4x and speed of current (v) = x.

Downstream speed (u + v) = 5x and Upstream speed (u − v) = 3x.

Equation: D/5x + (D − 10)/3x = 12.

Since we have one equation with two unknown variables (D and x), a unique value for D cannot be found.

Therefore The correct answer is Can’t be determined.

Alternate Method

Given: Ratio of boat speed (u) to current speed (v) = 4 : 1.

Formula Used: Time = Distance ÷ Speed

=> Let u = 4x and v = x.

=> Downstream Speed = 4x + x = 5x.

=> Upstream Speed = 4x − x = 3x.

=> Total Time = [D / 5x] + [(D − 10) / 3x] = 12.

=> [3D + 5(D − 10)] / 15x = 12.

=> 3D + 5D − 50 = 180x.

=> 8D − 180x = 50.

=> As there are infinite pairs of (D, x) that satisfy this linear equation, D is not uniquely determined.

Therefore The correct answer is Can’t be determined.

Additional Information

Downstream and Upstream Speed

Downstream speed is the sum of boat and stream speeds (u+v), while upstream speed is the difference (u−v).

Degrees of Freedom

To solve for 'n' variables, we strictly require 'n' independent equations. Here, D and x are two unknowns with only one relation.

Still Water Speed Formula

Still water speed (u) = 1/2 × (Downstream Speed + Upstream Speed).

Q70. Answer: (b) 4550

Shortcut Trick

For 10% Compound Interest over 2 years, the effective interest rate is 21%.

Given CI = Rs. 840 => 21% of Principal = 840 => Principal = 840 ÷ 0.21 = Rs. 4000.

Since (P + 500) = 4000, then P = 3500.

For Simple Interest at 15% for 2 years, total interest = 30%. Total Amount = 130% of 3500 = 1.3 × 3500 = Rs. 4550.

Therefore The correct answer is Rs. 4550.

Alternate Method

Given: Compound Interest (CI) = Rs. 840, Rate (R1) = 10%, Time (T) = 2 years, Principal (P1) = (P + 500).

Formula Used: CI = P[(1 + R/100)^T − 1]; Amount (SI) = P + (P × R × T) / 100.

Step 1: Find P + 500 from CI data.

=> 840 = (P + 500) × [(1 + 10/100)² − 1]

=> 840 = (P + 500) × [1.21 − 1]

=> 840 = (P + 500) × 0.21

=> P + 500 = 840 ÷ 0.21 = 4000

=> P = 3500

Step 2: Calculate SI Amount for P = 3500 at 15% for 2 years.

=> SI = (3500 × 15 × 2) ÷ 100 = 35 × 30 = 1050

=> Amount = P + SI = 3500 + 1050 = 4550

Therefore The correct answer is Rs. 4550.

Additional Information

Effective Percentage Rate (Successive)

For CI, the effective rate for 2 years is x + y + (xy/100). For 10%, it is 10 + 10 + (100/100) = 21%.

Simple Interest vs Amount

SI is only the interest earned, while Amount includes the Principal (A = P + SI). Always read if the question asks for Interest or

Amount.

Rule of 72

A quick way to estimate how long it takes to double money: Time ≈ 72 ÷ Interest Rate.

Q71. Answer: (e) 120

Given: Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

1. C is six years elder than the person who likes to visit Manali.

2. One person was born between the persons who likes to visit Manali and Ooty.

3. U is immediately elder than the person who likes to visit Ooty. So, there are two cases here:

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81				Ooty
1981	44	C		C	
1987	38		Manali		Manali
1993	32	U			
2018	7		Ooty		

4. S is two persons elder than T.

5. The one who likes to visit Goa is immediately younger than the T.

6. C doesn't like to visit Goa.

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81	S		S	Ooty
1981	44	C		C	
1987	38	T	Manali	T	Manali
1993	32	U	Goa		Goa
2018	7		Ooty		

7. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar.

8. P doesn't like to visit Goa, Shimla, and Ooty.

Case 2 gets eliminated because P does not visit Shimla. Hence, the final arrangement:

Year	**Age**	**Person**	**Place**
1933	92	P	Ladakh
1944	81	S	Shimla
1981	44	C	Munnar
1987	38	T	Manali
1993	32	U	Goa
2018	7	Q	Ooty

Required sum = 81 + 32 + 7 = 120 years

Hence, the correct answer is '120 years'.

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Q72. Answer: (b) 7 years

Given: Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

1. C is six years elder than the person who likes to visit Manali.
2. One person was born between the persons who likes to visit Manali and Ooty.
3. U is immediately elder than the person who likes to visit Ooty. So, there are two cases here:

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81				Ooty
1981	44	C		C	
1987	38		Manali		Manali
1993	32	U			
2018	7		Ooty		

4. S is two persons elder than T.
5. The one who likes to visit Goa is immediately younger than the T.
6. C doesn't like to visit Goa.

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81	S		S	Ooty
1981	44	C		C	
1987	38	T	Manali	T	Manali
1993	32	U	Goa		Goa
2018	7		Ooty		

7. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar.
8. P doesn't like to visit Goa, Shimla, and Ooty.

Case 2 gets eliminated because P does not visit Shimla. Hence, the final arrangement:

Year	**Age**	**Person**	**Place**
1933	92	P	Ladakh
1944	81	S	Shimla
1981	44	C	Munnar
1987	38	T	Manali
1993	32	U	Goa
2018	7	Q	Ooty

The person who likes to visit Ooty is 7 years old.

Hence, the correct answer is '7 years'.

Q73. Answer: (c) P – 1933 – Ladakh

Given: Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

1. C is six years elder than the person who likes to visit Manali.

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2. One person was born between the persons who likes to visit Manali and Ooty.

3. U is immediately elder than the person who likes to visit Ooty. So, there are two cases here:

		Case 1		Case 2	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81				Ooty
1981	44	C		C	
1987	38		Manali		Manali
1993	32	U			
2018	7		Ooty		

4. S is two persons elder than T.

5. The one who likes to visit Goa is immediately younger than the T.

6. C doesn't like to visit Goa.

		Case 1		Case 2	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81	S		S	Ooty
1981	44	C		C	
1987	38	T	Manali	T	Manali
1993	32	U	Goa		Goa
2018	7		Ooty		

7. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar.

8. P doesn't like to visit Goa, Shimla, and Ooty.

Case 2 gets eliminated because P does not visit Shimla. Hence, the final arrangement:

Year	Age	Person	Place
1933	92	P	Ladakh
1944	81	S	Shimla
1981	44	C	Munnar
1987	38	T	Manali
1993	32	U	Goa
2018	7	Q	Ooty

Correct combination: P – 1933 – Ladakh

Hence, the correct answer is 'P – 1933 – Ladakh'.

Q74. Answer: (c) Both I and II

Given: Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

1. C is six years elder than the person who likes to visit Manali.

2. One person was born between the persons who likes to visit Manali and Ooty.

3. U is immediately elder than the person who likes to visit Ooty. So, there are two cases here:

		Case 1		Case 2	
Year	Age	Person	Place	Person	Place

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1933	92			U	
1944	81				Ooty
1981	44	C		C	
1987	38		Manali		Manali
1993	32	U			
2018	7		Ooty		

4. S is two persons elder than T.

5. The one who likes to visit Goa is immediately younger than the T.

6. C doesn't like to visit Goa.

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81	S		S	Ooty
1981	44	C		C	
1987	38	T	Manali	T	Manali
1993	32	U	Goa		Goa
2018	7		Ooty		

7. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar.

8. P doesn't like to visit Goa, Shimla, and Ooty.

Case 2 gets eliminated because P does not visit Shimla. Hence, the final arrangement:

Year	**Age**	**Person**	**Place**
1933	92	P	Ladakh
1944	81	S	Shimla
1981	44	C	Munnar
1987	38	T	Manali
1993	32	U	Goa
2018	7	Q	Ooty

I. U is elder than T (False)

II. C is 37 years elder than S (False)

III. S doesn't like to visit Ooty (True)

Hence, the correct answer is 'Both I and II'.

Q75. Answer: (e) Q

Given: Six persons –C, P, Q, S, T and U – were born in different years among 1933, 1944, 1981, 1987, 1993 and 2018. The base year for calculating age is 2025. Each of them likes to visit a different place among Manali, Shimla, Goa, Munnar, Ooty, and Ladakh (not necessarily in the same order).

1. C is six years elder than the person who likes to visit Manali.

2. One person was born between the persons who likes to visit Manali and Ooty.

3. U is immediately elder than the person who likes to visit Ooty. So, there are two cases here:

		Case 1		**Case 2**	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81				Ooty

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1981	44	C		C	
1987	38		Manali		Manali
1993	32	U			
2018	7		Ooty		

4. S is two persons elder than T.

5. The one who likes to visit Goa is immediately younger than the T.

6. C doesn't like to visit Goa.

		Case 1		Case 2	
Year	Age	Person	Place	Person	Place
1933	92			U	
1944	81	S		S	Ooty
1981	44	C		C	
1987	38	T	Manali	T	Manali
1993	32	U	Goa		Goa
2018	7		Ooty		

7. The one who likes to visit Ladakh is two persons elder than the one who likes to visit Munnar.

8. P doesn't like to visit Goa, Shimla, and Ooty.

Case 2 gets eliminated because P does not visit Shimla. Hence, the final arrangement:

Year	Age	Person	Place
1933	92	P	Ladakh
1944	81	S	Shimla
1981	44	C	Munnar
1987	38	T	Manali
1993	32	U	Goa
2018	7	Q	Ooty

Except Q, all the other persons is of an even number age.

Hence, the correct answer is 'Q'.

Q76. Answer: (d) Five

Hence, we got four pairs- AD, AE, DE, DI, and NO.

Hence, "Five" is the correct answer.

Q77. Answer: (d) X and the one studying about Parrot

Given: Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

1. T is studying in the month having odd number of days.

2. Either two persons were studying before T or after T.

3. Two persons were studying between T and the one who is studying about Duck. So, there are two cases here:

	Case 1		Case 2	
Months	Persons	Birds	Persons	Birds
Jan (31)				
March (31)				
May (31)	T			Duck

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June (30)				
July (31)				
October (31)		Duck	T	
November (30)				
December (31)				

4. S was studying three persons after the person who is studying about Parrot and four months before Z.

5. Three persons were studying between Z and the one who is studying about Eagle.

6. Y is studying about Sparrow two persons before U. Case 2 is eliminated because there is no space for Eagle. Case 1 splits into one more case, Case 1a.

	Case 1		**Case 1A**	
Months	Persons	Birds	Persons	Birds
Jan (31)		Parrot		
March (31)		Eagle		Parrot
May (31)	T		T	Eagle
June (30)	S		Y	Sparrow
July (31)	Y	Sparrow	S	
October (31)	Z	Duck	U	Duck
November (30)	U		Z	
December (31)				

7. U is studying before V.

8. The one who is studying about Swan is studying immediately after the one studying about Crow.

9. Two persons were studying between the ones studying about Crow and Peacock.

10. W is not the first one to study. Case 1a is eliminated because there is no space left for the one who studying about Peacock.

So, the final arrangement is:

Months	**Persons**	**Birds**
Jan (31)	X	Parrot
March (31)	W	Eagle
May (31)	T	Pigeon
June (30)	S	Peacock
July (31)	Y	Sparrow
October (31)	Z	Duck
November (30)	U	Crow
December (31)	V	Swan

Correct combination: X and the one studying about Parrot

Hence, the correct answer is ‘X and the one studying about Parrot’.

Q78. Answer: (d) Z is studying in the month of October.

Given: Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

1. T is studying in the month having odd number of days.

2. Either two persons were studying before T or after T.

3. Two persons were studying between T and the one who is studying about Duck. So, there are two cases here:

	Case 1		Case 2	
Months	Persons	Birds	Persons	Birds
Jan (31)				
March (31)				
May (31)	T			Duck
June (30)				
July (31)				
October (31)		Duck	T	
November (30)				
December (31)				

4. S was studying three persons after the person who is studying about Parrot and four months before Z.

5. Three persons were studying between Z and the one who is studying about Eagle.

6. Y is studying about Sparrow two persons before U. Case 2 is eliminated because there is no space for Eagle. Case 1 splits into one more case, Case 1a.

	Case 1		Case 1A	
Months	Persons	Birds	Persons	Birds
Jan (31)		Parrot		
March (31)		Eagle		Parrot
May (31)	T		T	Eagle
June (30)	S		Y	Sparrow
July (31)	Y	Sparrow	S	
October (31)	Z	Duck	U	Duck
November (30)	U		Z	
December (31)				

7. U is studying before V.

8. The one who is studying about Swan is studying immediately after the one studying about Crow.

9. Two persons were studying between the ones studying about Crow and Peacock.

10. W is not the first one to study. Case 1a is eliminated because there is no space left for the one who studying about Peacock.

So, the final arrangement is:

Months	Persons	Birds
Jan (31)	X	Parrot
March (31)	W	Eagle
May (31)	T	Pigeon
June (30)	S	Peacock
July (31)	Y	Sparrow
October (31)	Z	Duck
November (30)	U	Crow
December (31)	V	Swan

True statement: Z is studying in the month of October.

Hence, the correct answer is ‘Z is studying in the month of October.’

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Q79. Answer: (c) Four

Given: Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

1. T is studying in the month having odd number of days.

2. Either two persons were studying before T or after T.

3. Two persons were studying between T and the one who is studying about Duck. So, there are two cases here:

	Case 1		**Case 2**	
Months	Persons	Birds	Persons	Birds
Jan (31)				
March (31)				
May (31)	T			Duck
June (30)				
July (31)				
October (31)		Duck	T	
November (30)				
December (31)				

4. S was studying three persons after the person who is studying about Parrot and four months before Z.

5. Three persons were studying between Z and the one who is studying about Eagle.

6. Y is studying about Sparrow two persons before U. Case 2 is eliminated because there is no space for Eagle. Case 1 splits into one more case, Case 1a.

	Case 1		**Case 1A**	
Months	Persons	Birds	Persons	Birds
Jan (31)		Parrot		
March (31)		Eagle		Parrot
May (31)	T		T	Eagle
June (30)	S		Y	Sparrow
July (31)	Y	Sparrow	S	
October (31)	Z	Duck	U	Duck
November (30)	U		Z	
December (31)				

7. U is studying before V.

8. The one who is studying about Swan is studying immediately after the one studying about Crow.

9. Two persons were studying between the ones studying about Crow and Peacock.

10. W is not the first one to study. Case 1a is eliminated because there is no space left for the one who studying about Peacock.

So, the final arrangement is:

Months	**Persons**	**Birds**
Jan (31)	X	Parrot
March (31)	W	Eagle
May (31)	T	Pigeon
June (30)	S	Peacock
July (31)	Y	Sparrow

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October (31)	Z	Duck
November (30)	U	Crow
December (31)	V	Swan

Four persons were studying between W and the one studying about Crow.

Hence, the correct answer is ‘Four’.

Q80. Answer: (a) Only III

Given: Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

1. T is studying in the month having odd number of days.

2. Either two persons were studying before T or after T.

3. Two persons were studying between T and the one who is studying about Duck. So, there are two cases here:

	Case 1		**Case 2**	
Months	Persons	Birds	Persons	Birds
Jan (31)				
March (31)				
May (31)	T			Duck
June (30)				
July (31)				
October (31)		Duck	T	
November (30)				
December (31)				

4. S was studying three persons after the person who is studying about Parrot and four months before Z.

5. Three persons were studying between Z and the one who is studying about Eagle.

6. Y is studying about Sparrow two persons before U. Case 2 is eliminated because there is no space for Eagle. Case 1 splits into one more case, Case 1a.

	Case 1		**Case 1A**	
Months	Persons	Birds	Persons	Birds
Jan (31)		Parrot		
March (31)		Eagle		Parrot
May (31)	T		T	Eagle
June (30)	S		Y	Sparrow
July (31)	Y	Sparrow	S	
October (31)	Z	Duck	U	Duck
November (30)	U		Z	
December (31)				

7. U is studying before V.

8. The one who is studying about Swan is studying immediately after the one studying about Crow.

9. Two persons were studying between the ones studying about Crow and Peacock.

10. W is not the first one to study. Case 1a is eliminated because there is no space left for the one who studying about Peacock.

So, the final arrangement is:

Months	**Persons**	**Birds**

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Jan (31)	X	Parrot
March (31)	W	Eagle
May (31)	T	Pigeon
June (30)	S	Peacock
July (31)	Y	Sparrow
October (31)	Z	Duck
November (30)	U	Crow
December (31)	V	Swan

False statement: Z is studying about Duck

Hence, the correct answer is ‘Z is studying about Duck’.

Q81. Answer: (e) The person studying about Peacock

Given: Eight persons — S, T, U, V, W, X, Y and Z were studying about different birds in different months of the same year, viz. January, March, May, June, July, October, November and December, but not necessarily in the same order. Each of them is studying about different birds — Crow, Pigeon, Swan, Parrot, Eagle, Duck, Sparrow and Peacock.

1. T is studying in the month having odd number of days.

2. Either two persons were studying before T or after T.

3. Two persons were studying between T and the one who is studying about Duck. So, there are two cases here:

	Case 1		**Case 2**	
Months	Persons	Birds	Persons	Birds
Jan (31)				
March (31)				
May (31)	T			Duck
June (30)				
July (31)				
October (31)		Duck	T	
November (30)				
December (31)				

4. S was studying three persons after the person who is studying about Parrot and four months before Z.

5. Three persons were studying between Z and the one who is studying about Eagle.

6. Y is studying about Sparrow two persons before U. Case 2 is eliminated because there is no space for Eagle. Case 1 splits into one more case, Case 1a.

	Case 1		**Case 1A**	
Months	Persons	Birds	Persons	Birds
Jan (31)		Parrot		
March (31)		Eagle		Parrot
May (31)	T		T	Eagle
June (30)	S		Y	Sparrow
July (31)	Y	Sparrow	S	
October (31)	Z	Duck	U	Duck
November (30)	U		Z	
December (31)				

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7. U is studying before V.
8. The one who is studying about Swan is studying immediately after the one studying about Crow.
9. Two persons were studying between the ones studying about Crow and Peacock.
10. W is not the first one to study. Case 1a is eliminated because there is no space left for the one who studying about Peacock.

So, the final arrangement is:

Months	Persons	Birds
Jan (31)	X	Parrot
March (31)	W	Eagle
May (31)	T	Pigeon
June (30)	S	Peacock
July (31)	Y	Sparrow
October (31)	Z	Duck
November (30)	U	Crow
December (31)	V	Swan

The person studying about Peacock was born in the month of June.

Hence, the correct answer is 'The person studying about Peacock'.

Q82. Answer: (c) As many persons sit to the right of G

Given: Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

1. S sits second from one of the extreme ends.
2. Only two persons sit between I and J and both face the opposite direction.
3. D sits third to the left of J, where both are not facing the same direction. So, there are two cases here:
4. As many persons sit to the right of D as to the right of F.
5. Only four persons sit between F and E, who sits second to the left of K.
6. G sits immediate right of K and both of them are facing the same direction.
7. E faces the opposite direction of G.

Case 1 is eliminated because the number of person facing south is less than the number of person facing. So, the final arrangement:

As many persons sit to the right of G as sit towards the right of E.

Hence, the correct answer is 'As many persons sit to the right of G'.

Q83. Answer: (a) I

Given: Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

1. S sits second from one of the extreme ends.
2. Only two persons sit between I and J and both face the opposite direction.
3. D sits third to the left of J, where both are not facing the same direction. So, there are two cases here:
4. As many persons sit to the right of D as to the right of F.
5. Only four persons sit between F and E, who sits second to the left of K.
6. G sits immediate right of K and both of them are facing the same direction.
7. E faces the opposite direction of G.

Case 1 is eliminated because the number of person facing south is less than the number of person facing. So, the final arrangement:

The number of persons sitting to the left of H is the same as the number of persons sitting to the right of I.

Hence, the correct answer is 'I'.

Q84. Answer: (a) H

Given: Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

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1. S sits second from one of the extreme ends.
2. Only two persons sit between I and J and both face the opposite direction.
3. D sits third to the left of J, where both are not facing the same direction. So, there are two cases here:
4. As many persons sit to the right of D as to the right of F.
5. Only four persons sit between F and E, who sits second to the left of K.
6. G sits immediate right of K and both of them are facing the same direction.
7. E faces the opposite direction of G.

Case 1 is eliminated because the number of person facing south is less than the number of person facing. So, the final arrangement:

Except H, all are are facing north.

Hence, the correct answer is 'H'.

Q85. Answer: (b) Only III

Given: Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

1. S sits second from one of the extreme ends.
2. Only two persons sit between I and J and both face the opposite direction.
3. D sits third to the left of J, where both are not facing the same direction. So, there are two cases here:
4. As many persons sit to the right of D as to the right of F.
5. Only four persons sit between F and E, who sits second to the left of K.
6. G sits immediate right of K and both of them are facing the same direction.
7. E faces the opposite direction of G.

Case 1 is eliminated because the number of person facing south is less than the number of person facing. So, the final arrangement:

I) H and K face the same direction. This is false.

II) An even number of persons sit between D and I. This is false.

III) I is the only neighbour of F. This is true.

Hence, the correct answer is 'I is the only neighbour of F'.

Q86. Answer: (b) J

Given: Eight persons – D, E, F, G, H, I, J, and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. The number of persons facing north is same as the number of persons facing south.

1. S sits second from one of the extreme ends.
2. Only two persons sit between I and J and both face the opposite direction.
3. D sits third to the left of J, where both are not facing the same direction. So, there are two cases here:
4. As many persons sit to the right of D as to the right of F.
5. Only four persons sit between F and E, who sits second to the left of K.
6. G sits immediate right of K and both of them are facing the same direction.
7. E faces the opposite direction of G.

Case 1 is eliminated because the number of person facing south is less than the number of person facing. So, the final arrangement:

J sits third to the right of I.

Hence, the correct answer is 'J'.

Q87. Answer: (e) None conclusion follows

The least possible diagram for the given statements is as follows,

Conclusions:

I. All Strong is stupid. → False (it is possible but not definite)

II. Few fools are stupid. → False (it is possible but not definite)

III. All fools are stupid. → False (it is possible but not definite)

Hence, None conclusion follows

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Q88. Answer: (e) Either I or II follow

The least possible diagram for the given statements is as follows,

Conclusions:

I. Few IAS is IPS. → False (It is possible but not definite)

II. No IAS is IPS. → False (It is possible but not definite)

III. all ministers are women. → False (It is definitely false)

Conclusions I and II are complementary pair.

Hence, either conclusion I or II follows.

Q89. Answer: (e) Only III follows

The least possible Venn diagram for the given statements is as follows:

Conclusion:

I. All tables are chair → False (because only a few tables are chair)

II. All pen being tables is a possibility → False (As only books are pen so nothing else can be pen)

III. All chair are books is a possibility. → True (As relation between Table and chair is of some also some table are not books. so in case of possibility except this some not part, Books can cover all the chair so it will be considered as true.)

Hence, only III follows.

Q90. Answer: (d) J lives above N

Given: Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

1. H lives to the west of K.
2. K lives in Flat-2 of the topmost floor.
3. O lives on an even-numbered floor in Flat-1.
4. M lives west of J.
5. M lives on a floor immediately below the O's floor. So, there are two cases here:

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O			
3	M	J		
2			O	
1			M	J

6. One floor between Q's floor and O's floor.
7. P and I live on the same named flat.
8. Only one floor is between P and L.
9. P lives below L.

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O	L	Q	L
3	M	J		
2	Q	P	O	P
1			M	J

10. P and O lives in a different named flat.

11. N lives immediately below L, but not in the same named flat.

Case 1 gets eliminated here because there is no space left for M. So, the final arrangement is:

Floors	Flat - 1	Flat - 2
5	H	K
4	Q	L
3	N	I
2	O	P
1	M	J

False statement: J lives above N

Hence, the correct answer is 'J lives above N'.

Q91. Answer: (d) Three

Given: Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

1. H lives to the west of K.
2. K lives in Flat-2 of the topmost floor.
3. O lives on an even-numbered floor in Flat-1.
4. M lives west of J.
5. M lives on a floor immediately below the O's floor. So, there are two cases here:

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O			
3	M	J		
2			O	
1			M	J

6. One floor between Q's floor and O's floor.
7. P and I live on the same named flat.
8. Only one floor is between P and L.
9. P lives below L.

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O	L	Q	L
3	M	J		
2	Q	P	O	P
1			M	J

10. P and O lives in a different named flat.
11. N lives immediately below L, but not in the same named flat.

Case 1 gets eliminated here because there is no space left for M. So, the final arrangement is:

Floors	Flat - 1	Flat - 2

5	H	K
4	Q	L
3	N	I
2	O	P
1	M	J

Three persons live between H and M in the same numbered flat.

Hence, the correct answer is ‘Three’.

Q92. Answer: (b) I

Given: Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

1. H lives to the west of K.
2. K lives in Flat-2 of the topmost floor.
3. O lives on an even-numbered floor in Flat-1.
4. M lives west of J.
5. M lives on a floor immediately below the O’s floor. So, there are two cases here:

Floors	**Case 1**		**Case 2**	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O			
3	M	J		
2			O	
1			M	J

6. One floor between Q’s floor and O’s floor.
7. P and I live on the same named flat.
8. Only one floor is between P and L.
9. P lives below L.

Floors	**Case 1**		**Case 2**	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O	L	Q	L
3	M	J		
2	Q	P	O	P
1			M	J

10. P and O lives in a different named flat.
11. N lives immediately below L, but not in the same named flat.

Case 1 gets eliminated here because there is no space left for M. So, the final arrangement is:

Floors	**Flat - 1**	**Flat - 2**
5	H	K
4	Q	L
3	N	I

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2	O	P
1	M	J

I lives in Flat 2 on the third floor.

Hence, the correct answer is 'I'.

Q93. Answer: (c) P and O

Given: Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

1. H lives to the west of K.
2. K lives in Flat-2 of the topmost floor.
3. O lives on an even-numbered floor in Flat-1.
4. M lives west of J.
5. M lives on a floor immediately below the O's floor. So, there are two cases here:

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O			
3	M	J		
2			O	
1			M	J

6. One floor between Q's floor and O's floor.
7. P and I live on the same named flat.
8. Only one floor is between P and L.
9. P lives below L.

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O	L	Q	L
3	M	J		
2	Q	P	O	P
1			M	J

10. P and O lives in a different named flat.
11. N lives immediately below L, but not in the same named flat.

Case 1 gets eliminated here because there is no space left for M. So, the final arrangement is:

Floors	Flat - 1	Flat - 2
5	H	K
4	Q	L
3	N	I
2	O	P
1	M	J

P and O live on the same floor.

Hence, the correct answer is ‘P and O’.

Q94. Answer: (a) H

Given: Ten people— H, I, J, K, L, M, N, O, P, and Q —live in a building with five floors and two flats (Flat 1 and Flat 2) on each floor. The floors are numbered from 1 to 5 (1 being the lowermost floor and 5 being the topmost floor). Each floor has two flats viz., Flat-1 and Flat-2, where Flat 1 is to the west of Flat 2. Flat 1 of floor 2 is immediately above Flat 1 of floor 1 and immediately below Flat 1 of floor 3 and so on. Similarly Flat 2 of floor 2 is immediately above Flat 2 of floor 1 and immediately below Flat 2 of floor 3 and so on. The area of each flat is equal. Only two persons live on each floor and only one person lives in each flat.

1. H lives to the west of K.
2. K lives in Flat-2 of the topmost floor.
3. O lives on an even-numbered floor in Flat-1.
4. M lives west of J.
5. M lives on a floor immediately below the O’s floor. So, there are two cases here:

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O			
3	M	J		
2			O	
1			M	J

6. One floor between Q’s floor and O’s floor.
7. P and I live on the same named flat.
8. Only one floor is between P and L.
9. P lives below L.

Floors	Case 1		Case 2	
	Flat - 1	Flat - 2	Flat - 1	Flat - 2
5	H	K	H	K
4	O	L	Q	L
3	M	J		
2	Q	P	O	P
1			M	J

10. P and O lives in a different named flat.
11. N lives immediately below L, but not in the same named flat.

Case 1 gets eliminated here because there is no space left for M. So, the final arrangement is:

Floors	Flat - 1	Flat - 2
5	H	K
4	Q	L
3	N	I
2	O	P
1	M	J

H lives in Flat 1 on the topmost floor.

Hence, the correct answer is ‘H’.

Q95. Answer: (a) M

Given Word	I N F O R M A T I O N
Chosen letters (1st, 5th, 6th, and 8th letters)	I, R, M, T
possible word	TRIM
Fourth Letter of the word	M

Hence, the fourth letter of the word formed by chosen letters is ‘M’.

Q96. Answer: (a) V

Given: Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

1. Only one person sits between Z and U.
2. X sits third to the right Y, who is an immediate neighbor of Z. So, there are three cases here:
3. Only three people sit between Z and T.
4. T sits second to the left of S.

Case 1a is eliminated because T sits second to the left of U.

5. R is an immediate neighbor of both Z and S.
6. U is not an immediate neighbor of W.

Cases 2 and 2a are eliminated because there is no space for R. So, case 1 is the final arrangement.

V sits fourth to the right of R

Hence, the correct answer is ‘V’.

Q97. Answer: (c) One

Given: Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

1. Only one person sits between Z and U.
2. X sits third to the right Y, who is an immediate neighbor of Z. So, there are three cases here:
3. Only three people sit between Z and T.
4. T sits second to the left of S.

Case 1a is eliminated because T sits second to the left of U.

5. R is an immediate neighbor of both Z and S.
6. U is not an immediate neighbor of W.

Cases 2 and 2a are eliminated because there is no space for R. So, case 1 is the final arrangement.

One person sits between T and V when counted from left of T.

Hence, the correct answer is ‘One’.

Q98. Answer: (e) S-Y

Given: Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

1. Only one person sits between Z and U.
2. X sits third to the right Y, who is an immediate neighbor of Z. So, there are three cases here:
3. Only three people sit between Z and T.
4. T sits second to the left of S.

Case 1a is eliminated because T sits second to the left of U.

5. R is an immediate neighbor of both Z and S.
6. U is not an immediate neighbor of W.

Cases 2 and 2a are eliminated because there is no space for R. So, case 1 is the final arrangement.

Except S-Y, in all other options one person is sitting between them.

Hence, the correct answer is ‘S-Y’.

Q99. Answer: (d) Both I and III

Given: Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

1. Only one person sits between Z and U.
2. X sits third to the right Y, who is an immediate neighbor of Z. So, there are three cases here:
3. Only three people sit between Z and T.
4. T sits second to the left of S.

Case 1a is eliminated because T sits second to the left of U.

5. R is an immediate neighbor of both Z and S.
6. U is not an immediate neighbor of W.

Cases 2 and 2a are eliminated because there is no space for R. So, case 1 is the final arrangement.

S and W sit between X and Y when counted in clockwise direction from Y.

Hence, the correct answer is ‘Both I and III’.

Q100. Answer: (a) Third to the righ

Given: Nine persons – R, S, T, U, V, W, X, Y and Z– are sitting around a circular table, all facing towards the center. But not necessarily in the same order.

1. Only one person sits between Z and U.
2. X sits third to the right Y, who is an immediate neighbor of Z. So, there are three cases here:
3. Only three people sit between Z and T.
4. T sits second to the left of S.

Case 1a is eliminated because T sits second to the left of U.

5. R is an immediate neighbor of both Z and S.
6. U is not an immediate neighbor of W.

Cases 2 and 2a are eliminated because there is no space for R. So, case 1 is the final arrangement.

V is third to the right of Z.

Hence, the correct answer is ‘Third to the right’.

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