SBI PO Prelims 1 Nov 2023 Memory Based Paper (Shift 1) (Previous Year Paper)

SBI Probationary Officer (PO) • 2023 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Directions

Direction: Carefully read the provided passage to respond to the subsequent questions. Each question will present five answer options. Select the appropriate option as your answer.

Pink Tax is commonly used to describe a situation wherein things associated with women are priced higher than those with men. Generally speaking, women pay more than males for similar items. The pink tax is not enforced by the government but by the businesses selling the products. According to experts, the pricing disparity is due to market forces. The pink tax has long imposed an economic burden on women around the world—especially since women continue to earn less than men.

According to a study _____ the New York City Department of Consumer Affairs in 2015, women's products are typically more expensive than men's without a proper reason. The study concluded that products explicitly marketed for women cost seven per cent more on average than products sold for men. This discrepancy includes apparel, toys, and healthcare products, among other things. The largest discrepancy came to personal care/hygiene products, where women's products cost 13 per cent more than men's.

Several countries have investigated the pink tax, including Argentina, France, Germany, the UK, Australia, and Italy. For example, in the UK, it was found that women and girls were being charged, on average, 37 per cent more for toys, cosmetics, and clothes than their male counterparts. In the UK, girls' school uniforms were also 12 per cent more expensive than boys' uniforms. In Singapore, a check by the Sunday Times on 10 companies found that women pay more for some products and services, such as dry cleaning and razors, offered by around half of these companies. Additionally, women in Singapore have to pay more premiums for Careshield Life, a national long-term care insurance scheme introduced by the government.

Examples of pink tax in India include salon services, personal care goods such as shampoos, soaps, and deodorants, as well as clothing, toys, and accessories such as jewelry. Presently, women are heavily exploited by vegan products and non-animal-tested cosmetics that are significantly more expensive, a form of taxation.

Q1. What’s the synonym of the word ‘since’ as used in the passage?

(a) until
(b) before
(c) as
(d) till
(e) therefore

Q2. Select the most appropriate synonym of the given word.

Form

(a) Damage
(b) Demolish
(c) Collapse
(d) Type
(e) Scatter

Q3. Which of the following options would be suitable for the blank given in the passage?

(a) in
(b) to
(c) by
(d) on
(e) with

Q4. Which of the following statements is true as per the passage?

(a) The pink tax is enforced by the government but not by the businesses selling the products.
(b) Women in Singapore have to pay less premiums for Careshield Life, a national long-term care insurance scheme introduced by the government.
(c) Several countries have investigated the pink tax, including Argentina, France, Germany, the UAE, Australia, and Italy.
(d) Some of the products that are included under the pink tax in India are salon services, personal care goods such as shampoos, soaps, and deodorants, as well as clothing, toys, and accessories such as jewelry.
(e) As per the study by the New York City Department of Consumer Affairs in 2015-2016, women's products are typically more expensive than men's without a proper reason.

Q5. Find true statement(s) from the following:

• (A) The discrepancy in tax includes apparel, toys, and healthcare products, among other things.
• (B) The pink tax has long imposed an economic burden on women and men around the world.
• (C) Currently, women bear a significant financial burden due to the high costs of vegan products and non-animal-tested cosmetics, which can be considered a type of economic imposition.

(a) A and B are true
(b) C and A are true
(c) Only C is true
(d) Only B is true
(e) All are true.

Q6. According to the passage, what is the primary reason for the pricing inequality known as the "pink tax"?

(a) The pricing disparity is primarily a result of government regulations that enforce gender-based pricing on products marketed to women.
(b) Market forces, driven by supply and demand dynamics, are the primary factors behind the pricing disparity known as the "pink tax."
(c) Gender-based taxation, imposed by governments, directly contributes to the higher prices of products associated with women.
(d) International trade agreements have established pricing guidelines that result in women's products being priced higher than men's.
(e) Consumer preferences, influenced by advertising and social factors, play the central role in the pricing disparity termed the "pink tax.

Q7. Which of the following expresses the same meaning of the word given in bold?

in the UK, it was found that women and girls were being **charged**

(a) confronted
(b) imposed
(c) limited
(d) absolved
(e) altered

Q8. Based on the study by the New York City Department of Consumer Affairs, where was the largest product pricing discrepancy between men and women observed?

(a) Clothing
(b) Toys
(c) Personal care/hygiene products
(d) Accessories such as jewelry
(e) Vegan products

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Q9. According to the information in the passage, what is the "Pink Tax"?

(a) It's an additional tax charged by the government on women's products.
(b) It's inequality in the amount payable for insurance based on gender.
(c) It's a taxation form enforced by businesses where female products cost more than their male counterparts.
(d) It's a type of business tax focused only on clothing, toys, and accessories.
(e) It's a tax levied on vegan and non-animal-tested cosmetics.

Q10. Direction: The given sentence is divided into four parts: A, B, C, and D. Choose the part that contains an error as your answer. If the sentence is error-free, mark E i.e. No error as your answer.

People develop a attachment (A)/ to a city because they find (B)/ a sense of belonging (C)/ within like-minded individuals. (D)/ No error (E)

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

Q11. Direction: The given sentence is divided into four parts: A, B, C, and D. Choose the part that contains an error as your answer. If the sentence is error-free, mark E i.e. No error as your answer.

These are just small (A)/ alterations with our lifestyle (B)/ that will help us achieve (C)/ that perfect body. (D)/ No error (E)

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

Q12. Direction: The given sentence is divided into four parts: A, B, C, and D. Choose the part that contains an error as your answer. If the sentence is error-free, mark E i.e. No error as your answer.

Despite their differing (A) viewpoints on the matter, (B) the team of experts were (C) able to reach an agreement. (D) No error (E)

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

Q13. Direction: The given sentence is divided into four parts: A, B, C, and D. Choose the part that contains an error as your answer. If the sentence is error-free, mark E i.e. No error as your answer.

When he was arriving (A) at the party last night, (B) she said she loved the gift, (C) but now she regrets it deeply. (D) No error (E)

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

Q14. Direction: The given sentence is divided into four parts: A, B, C, and D. Choose the part that contains an error as your answer. If the sentence is error-free, mark E i.e. No error as your answer.

Constant exposure to noise (A) can cause increased stress levels, (B) anxiety, irritability, (C) and cognitive impairment. (D) No error (E)

(a) A
(b) B
(c) C

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(d) D
(e) E

Q15. Directions: In the given sentence, four words, given in bold are marked as (A), (B), (C) and (D). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer.

As data and technology play a effectively (A) role in the delivery (B) of services, human development systems should ensure (C) they are crucial (D) used.

(a) DBCA
(b) BCAD
(c) CABD
(d) ABDC
(e) No rearrangement required

Q16. Directions: In the given sentence, four words, given in bold are marked as (A), (B), (C) and (D). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer.

Pandemics, economic succession (A) and rapid (B) weather events were once tail-end risks, but all three have hit South Asia in extreme (C) slumps (D) since 2020.

(a) DBCA
(b) ACBD
(c) DCBA
(d) BADC
(e) No rearrangement required

Q17. Directions: In the given sentence, four words, given in bold are marked as (A), (B), (C) and (D). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer.

The aim of the dispatch (A) is not to reduce quality (B), but to increase and improve the automation (C) of delivery and reduce the time of manpower (D).

(a) BADC
(b) CBDA
(c) CDBA
(d) BDAC
(e) No rearrangement required

Q18. Directions: In the given sentence, four words, given in bold are marked as (A), (B), (C) and (D). These words may or may not be placed in their right places. Four options with different arrangements of these words are given below, mark the option with the correct arrangement as your answer. If no change is required mark 'No rearrangement required' as your answer.

The eligible (A) number of employees who will be exercised (B) under the new order will only be known after exact (C) employees have covered (D) the option.

(a) ADCB
(b) CBAD
(c) DCBA
(d) CDAB
(e) No rearrangement required

Q19. Directions: Choose the most appropriate word to fill in the given black.

The Budget aims to fulfil the long-term _____ goals of the country along with being the world's fastest-growing large economy.

(a) implausible

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(b) challenging
(c) obnoxious
(d) sustainable
(e) untenable

Q20. Directions: Choose the most appropriate word to fill in the given blank.

For youngsters, smartwatches are a way to _____ another accessory, for working professionals they are a watch-cum-reminder machine, and for the elderly, they are used to monitor vitals.

(a) Recruit
(b) Flaunt
(c) Efface
(d) Impel
(e) Replace

Q21. Directions: Choose the most appropriate word to fill in the given blank.

He is an arrogant businessman and he likes to _____ his net worth, it makes him seem like he has a lot of money in his bank account.

(a) exaggerate
(b) propel
(c) compensate
(d) understate
(e) trivialize

Q22. Directions: Choose the most appropriate word to fill in the given blank.

Today, our class teacher _____ the importance of exercise and fresh fruit and vegetables in the diet.

(a) imposed
(b) impeded
(c) emphasized
(d) confirmed
(e) depreciated

Q23. 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 a 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 none of the options makes it possible for a meaningful sentence to be formed, indicate 'None of these' as your answer.

Column 1	Column 2
(A) He explains that when scales are confiscated	(P) Skill-building workshops for new agencies
(B) We have been conducting training and	(Q) It is important to develop protocols
(C) The research, published in the Journal of the	(R) American Medical Association is interesting

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

Q24. 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 a grammatically and contextually meaningful sentence. Identify the correct option given below that gives the correct sequence in which one or more sentences can be formed. If none of the options makes it possible for a meaningful sentence to be formed, indicate 'None of these' as your answer.

Column 1	Column 2

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(A) Studies of the coronavirus are largely	(P) focusing on its ‘spike’ protein
(B) This is a complex question to which there is,	(Q) so far, no clear answer.
(C) The judgment declared	(R) the Maratha reservation unconstitutional

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

Q25. A word and three sentences that use the word are given below. Determine in which of the following sentences is the word used correctly with respect to grammar and context.

STATE

1. The Prime Minister has stated in his speech that our country will be a five trillion economy in the coming years.
2. I'm too nervous to stop in this horrid state where it never ceases raining.
3. it is now illegal in every state with Louisiana being the last to outlaw it in 2008.

(a) Both 1 & 2
(b) Both 2 & 3
(c) Both 1 & 3
(d) All of the above
(e) No of the above

Directions

Directions: Below, you will find a set of five sentences. You need to arrange these sentences in the correct sequence to form a coherent paragraph. After doing so, answer the questions that follow.

A. However, the influencer is not a buzzword anymore. Considering macro and celeb influencers, today's new-gen celebs, these individuals

B. The rise of social media has certainly revolutionised various aspects, including how we connect, share, and consume information.

C. The emergence of influencers is one of the most significant changes brought about by social media in the realm of marketing.

D. Furthermore, with their substantial online followings and persuasive skills, they have emerged as critical players in determining consumers' buying behaviour

E. Can significantly impact the psychology of potential consumers through their recommendations, opinions, and ideas, thereby shaping their purchasing decisions.

Q26. Which of the following will be the FIRST sentence after rearrangement?

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

Q27. Which of the following will be the SECOND sentence after rearrangement?

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

Q28. Which of the following will be the THIRD sentence after rearrangement?

(a) B
(b) C
(c) A

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(d) D
(e) E

Q29. Which of the following will be the FOURTH sentence after rearrangement?

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

Q30. Which of the following will be the LAST sentence after rearrangement?

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

QUANTITATIVE APTITUDE

Q31. A invested Rs. 15000 and B invested Rs. (15000 + Y) in a venture. B removed 40% of his investment following 4 months. If a total profit of Rs. 47000 was generated by the end of the year, with B's share amounting to Rs. 22000, could you ascertain the value of 2Y?

(a) 6000
(b) 3000
(c) 2000
(d) 1000
(e) 5000

Q32. A person rows a distance of 20 km upstream and 15 km downstream in a total time of 2 5/12 hours. If the speed of the current is 4 km/h, then in how many hours can he row a distance of 64 km upstream?

(a) 5 1/3
(b) 42/3
[Figure: see this question online]
[Figure: see this question online]
(c) 51/2
[Figure: see this question online]
[Figure: see this question online]
(d) 41/4
[Figure: see this question online]
[Figure: see this question online]
[Figure: see this question online]
(e) 41/5

Q33. P, Q, and R collectively are able to complete a task in 16(4/11) days, while P and Q together can finish the same task in 20 days. Considering these rates, can you determine how many days it would take for R alone to complete 60% of the task?

(a) 51 days
(b) 59 days
(c) 54 days
(d) 53 days
(e) 50 days

Q34. In a classroom consisting of boys and girls, the average marks obtained by the boys is 90. If the average of the whole class is 92, and the ratio of the number of boys to that of girls is 3 : 2, what is the average marks scored by the girls?

(a) 97

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(b) 94
(c) 96
(d) 95
(e) None of these

Q35. Vessel 'A' contains a total of 45 litres of a mixture of milk and water. Some quantity of milk is taken out from the vessel and the same quantity of water is also taken out and these are added to honey in vessel 'B' to form a mixture 'P', which contains 4 litres of honey. If mixture 'P' contains 40% of water, then in total what percent of the mixture is taken out from vessel 'A'?

(a) Between 24% to 28%
(b) Between 28% to 32%
(c) Between 32% to 36%
(d) Between 36% to 40%
(e) Between 40% to 44%

Q36. The average cost price of two shirts A and B is Rs. 400 and the profit percent on these shirts are 10% and 20% respectively. If the total selling price of these shirts is Rs. 928, then find the cost price of shirt B.

(a) Rs. 360
(b) Rs. 320
(c) Rs. 480
(d) Rs. 420
(e) None of these

Q37. Sunil invested Rs. x in scheme A at a rate of 15% per annum for 2 years at Simple Interest and invested Rs. (x + 500) in scheme B at the rate of 12% per annum for 2years at simple Interest. If the total interest received by him at the end of 2 years is Rs. 4224 then find the value of x.

(a) 8200
(b) 7600
(c) 7200
(d) 7800
(e) None of these

Q38. The length and breadth of a rectangle are in the ratio 3 : 2. If the length is increased by 5 m keeping the breadth same, the new area of rectangle is 2600 m^2. What is the perimeter of the original rectangle?

(a) 320 m
(b) 300 m
(c) 295 m
(d) 200 m
(e) None of these

Q39. What should come in place of question Mark '?' in the following number series?

300, ?, 148, 221, 441, 1101.5

(a) 115.5
(b) 150.5
(c) 149
(d) 151
(e) None of these

Q40. What should come in place of question Mark '?' in the following number series?

25, ?, 256, 476, 745, 1050

(a) 60
(b) 100
(c) 125
(d) 65
(e) None of these

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Q41. What should come in place of question Mark '?' in the following number series?

68, ?, 407, 470, 496, 503

(a) 283
(b) 229
(c) 217
(d) 253
(e) None of these

Q42. What should come in place of question Mark '?' in the following number series?

54, 67, 50, 63, 46, ?

(a) 33
(b) 59
(c) 63
(d) 61
(e) None of these

Q43. What should come in place of question Mark '?' in the following number series?

60, ?, 63.6, 70.8, 99.6, 243.6

(a) 60.8
(b) 61.2
(c) 60.5
(d) 62.2
(e) None of these

Q44. What should come in place of question Mark '?' in the following number series?

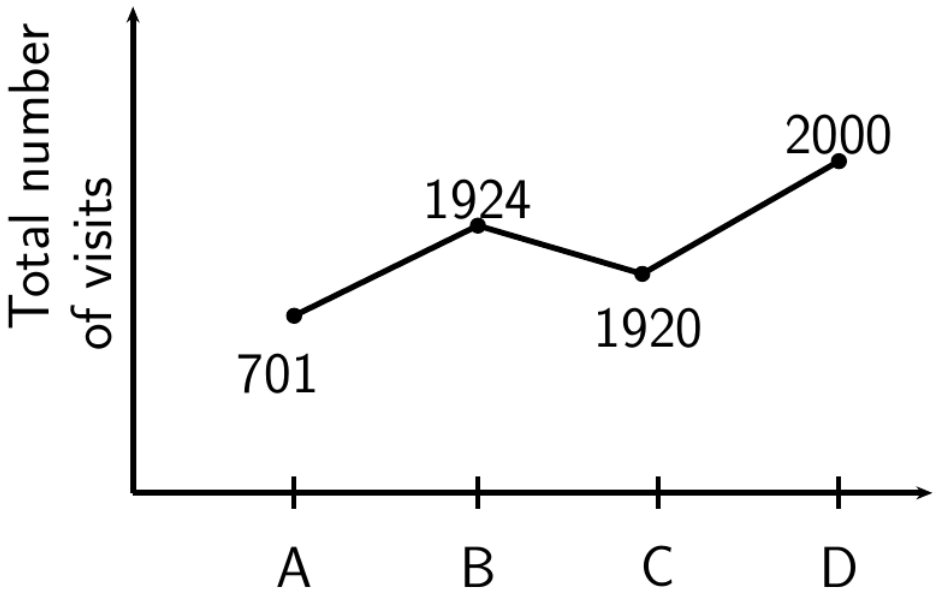
15, 34, 57, 86, ?, 170

(a) 117
(b) 123
(c) 125
(d) 121
(e) None of these

Directions

Directions: - Read the following directions carefully and answer the following question.

The line graph represents the total number of population visited in Museums A, B, C and D on Sunday.



The table represents the number of males who visited in Museum out of total population.

Museum	Number of Males out of the total People who visited in Museum
A	2/9
B	11/13
C	13/16
D	19/40

Q45. If the number of male in Museum E are 7.69% more than the number of male who visited in Museum C and the number of female are 300 less than the number of Male visited in Museum B. Then find the difference between the number of male and female who visited Museum E?

(a) 456
(b) 560
(c) 352
(d) 678
(e) 876

Q46. Museum A is in village Rampur where the number of population was 1,24,000 and the ratio of male and female 15:16 Then, find the percentage of total female on Sunday in Rampur village to the total number male in Museum B?

(a) More than 4010%
(b) Between 3508% to 4000%
(c) Less than 3886%
(d) Both option 1 and 3
(e) None of these

Q47. What are the difference between male who visited museum B and C together to the average of female who visited museum A, B and C together?(approx value)

(a) 1962
(b) 2700
(c) 1882
(d) 2528
(e) None of these

Q48. If the cost price of male ticket and the female ticket Rs. X and Rs.(X-5). And the museum B get the revenue Rs. 94720. Find the total revenue getting from male ticket from museum A?(Consider approximate value of X)

(a) 18900
(b) 20800
(c) 20600
(d) 18700
(e) None of these

Q49. Find the average number of vistiors in B, C and D ?

(a) 1176
(b) 2096
(c) 1556
(d) 1948
(e) None of these

Q50. The number of population of village Mowar was increased by p% on Sunday due to the number visitors visited at museum D. On sunday there were total female 30% of the population on that day and the number of male population on that day was 4200. Find the value of P?

(a) 200
(b) 150
(c) 300

(d) 100
(e) None of these

Directions

Directions: Read the following instructions and answer the following question.

The tabular graph shows the number of articles sold by shop Pesto in three different months by three different entity

Months	Average number of articles sold by (A, B & C)	% of articles sold by A out of the total	Number of articles sold by C
April	100	20%	160
May	120	25%	70
June	72	50%	65

Q51. Find the difference between the number of article sold by C in June and April months?
(a) 86
(b) 55
(c) 95
(d) 42
(e) 36

Q52. The price of article sold by B is Rs. 180 and in June they offer discount of p% and the company will get Rs. 4440. Find the p (approx)?
(a) 40
(b) 50
(c) 75
(d) 60
(e) 35

Q53. If out of the total number of products sold by A in june, 25% were returned due to defects, then find the ratio of non defective products sold by A in june and the number of products sold by C in April?
(a) 25:31
(b) 81 : 160
(c) 21:32
(d) 8:5
(e) None of these

Q54. In April, if person B sold two types of products i.e. TV and Refrigerator in the ratio of 6:4, then find the difference between the total number of TVs sold by B in April and total number of products sold by B in June.
(a) 6
(b) 5
(c) 8
(d) 4
(e) None of these

Q55. Find the average of number of products sold by B in May and that by C in June ?
(a) 132.5
(b) 120
(c) 118
(d) 124
(e) None of these

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Q56. If 1/3rd of the products sold by B in June were sold to females then find the Product of number of products sold by B to males in June and the number of products sold by A in May?

(a) 1120
(b) 1080
(c) 980
(d) 2580
(e) None of these

Q57. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. $x^2 + 2x - 35 = 0$

II. $y^2 - 2y - 48 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) x = y or relation between x and y can not be established.

Q58. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. $x^2 - 10x + 16 = 0$

II. $y^2 - 5y - 24 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) x = y or relation between x and y can not be established.

Q59. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. $x^2 – 52x + 51 = 0$

II. $y^2 – 57y + 56 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) x = y or relationship between x and y cannot be established

Q60. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. $x^2 – 3x + 2 = 0$

II. $y^2 + 12y + 36 = 0$

(a) $x > y$
(b) $x < y$
(c) $x \geq y$
(d) $x \leq y$
(e) x = y or relationship between x and y cannot be established

Q61. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. $x^2 + 2x – 8 = 0$

II. $y^2 – 8y + 12 = 0$

(a) $x > y$
(b) $x < y$

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(c) x ≥ y
(d) x ≤ y
(e) x = y or relationship between x and y cannot be established

Directions

Direction: Read the following question and answer the following

The number of products sold by A in 2015 is 1.5 times of the number of products sold by B in that year. Number of Products sold by A in 2017 is 14 more than that in 2015. In 2016 A sold 10% less products as compared to 2017. The Ratio of number of products sold by B in 2015 to that in 2017 is 3: 8. Total number of products sold by B in all the three years is 1 less than the number of products sold by A and B together in 2017. The number of products sold by B in 2016 is 1 more than that sold by it in 2015.

Q62. In 2017, A and B sold 40% and 64% of their respective products, then find the (approx) difference between the number of unsold products of A and B in 2017.
(a) 7
(b) 18
(c) 25
(d) 21
(e) None of these

Q63. If the number of products sold by C in 2017 is 25% more than the number of products sold by A in 2015, then find the sum of number of products sold by C in 2017 and that by B in 2016.
(a) 92
(b) 104
(c) 1101
(d) 112
(e) 70

Q64. In 2016, if 40% of the number of products sold by A were sold in the local market and rest were transported to outside. Find the total number of products sold by A outside.
(a) 27
(b) 30
(c) 35
(d) 25
(e) None of these

Q65. In 2017, B sold two types of products i.e. type X and type Y. If out of the total products sold by B in 2017, 3/8th were of type Y, then find the ratio of number of products sold by A in 2015 and number of type X products sold by B in 2017?
(a) 3:5
(b) 3:4
(c) 9:10
(d) 2:5
(e) None of these

REASONING ABILITY

Q66. How many such pairs of letters are in the word “BONAFIDE” which has as many letters between them as there are in the English alphabetical series (both forward and backward)?
(a) Three
(b) Four
(c) Five
(d) Six
(e) More than six

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Q67. If we form a four-letter meaningful word by using the 2nd, 5th, 7th, and 9th letters from the left end of the word "SHOWERING", then which of the following will be the last letter of the meaningful word thus formed? If more than one meaningful word is formed mark Y as your answer. If no meaningful word is formed, mark X as your answer.

(a) H
(b) G
(c) I
(d) Y
(e) X

Q68. Direction: In the question below, there are three statements followed by two conclusions numbered I and II. 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 them from the given statements disregarding commonly known facts.

Statements:

Some puzzle are inequality.

No puzzle is coding.

Some coding is not input.

Conclusions:

I. All inequality can be coding.

II. Some puzzle is not input.

(a) Both follow
(b) Only II follow
(c) Neither I nor II follow.
(d) Only I follow
(e) Either I or II follow

Q69. Direction: In the question below, there are three statements followed by two conclusions numbered I and II. 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 them from the given statements disregarding commonly known facts.

Statements:

Only a few true are false.

No false is correct.

All wrong are correct.

Conclusions:

I. Some false can be wrong.

II. Some true can be correct.

(a) Both I and II follow
(b) Only I follow
(c) None follow
(d) Either I or II follow
(e) Only II follow

Directions

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

Ten persons live on different floors in the same building. The building has ten floors ground floor is numbered 1 and the topmost floor is numbered 10.

N lives on an even number floor above the sixth floor. Only two persons live between N and A. Only three floors are there between A and J who does not live on the ninth floor. More than four floors between J and B who lives below N. Only three persons live between B and H. The number of floors between N and H same as the number of floors between J and F. G lives on the prime number floor. G lives below D and above E. C does not live on the sixth floor.

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Q70. Which of the following is true with respect to C as per the given information?

(a) N lives immediately below C.
(b) C lives immediately below D.
(c) C lives on floor number 9.
(d) Two floors are there between C and D.
(e) C lives on an even-numbered floor.

Q71. Who lives on the floor immediately above D?

(a) No one
(b) A
(c) H
(d) J
(e) G

Q72. Who among the following lives on floor number 6?

(a) F
(b) E
(c) D
(d) G
(e) Cannot be determined

Q73. How many persons live between the floors of G and B?

(a) Four
(b) Seven
(c) Five
(d) Six
(e) None of the above

Q74. Who amongst the following live on the floors exactly between F and H?

(a) A and C
(b) E and A
(c) E and D
(d) D and A
(e) C and E

Directions

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

Eight members A, B, C, D, E, F, G and H are in a family related to each other. Only three married couples are there in the family and there are four generations in the family. Some are males and some are females. The number of females is more than the number of males in the family. Either both or none of the parents is alive in the family.

H is the sister-in-law of G, who is the spouse of E. F is the daughter of E and mother of D, who is the granddaughter of G. E is the daughter-in-law of C who is the husband of A. D and H are not married.

Q75. Who is the spouse of B?

(a) A
(b) C
(c) D
(d) F
(e) None of these

Q76. How is A related to F?

(a) Mother
(b) Father
(c) Grandmother

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(d) Grandfather
(e) None of these

Q77. How many female members are there in the family?

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

Q78. If all the letters of the word “FRONTIER” are arranged in alphabetical order starting from the left end, then how many letters are there in English alphabets between the letters which are fifth from the right end and fourth to the left of the seventh letter from the left end?

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

Directions

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

Six persons - P, Q, R, S, T, and U visited different countries - Russia, Canada, Japan, Netherlands, France, and China. They attended a meeting on two different dates either 11 or 22 of three different months - September, October, and November of the same year. All the information is not necessarily in the same order.

P attended two persons before the one who visited Japan. At least three persons attended after P. Only two persons attended between P and S. The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. U attended immediately after the one who visited China. U neither visited Japan nor the Netherlands. R attended on an odd number date but after P. T neither visited Russia nor Japan. Q attended immediately before the one who visited France.

Q79. Who among the following person attended the meeting on September 22?

(a) Q
(b) The one who visited China
(c) The one who visited France
(d) U
(e) R

Q80. Which of the following statement is/are correct?

(a) P attended two persons before U.
(b) Only two persons attended between Q and U.
(c) No one attended after R.
(d) Both (1) and (2)
(e) Both (2) and (3)

Q81. In which of the following countries did R visit?

(a) Netherlands
(b) Russia
(c) France
(d) Japan
(e) Canada

Q82. How many persons attended before the one who visited China?

(a) Two
(b) Three
(c) Four

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(d) One
(e) None

Q83. Which of the following Month and Date did S attend the meeting?

(a) October 11
(b) September 22
(c) September 11
(d) November 11
(e) November 22

Directions

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

Six persons viz. A, B, C, D, E, and F are sitting around a circular table facing towards the center. All of them like different fruits viz. Mango, Apple, Orange, Banana, Guava, and Grapes. All the information is not necessarily in the same order.

Only one person sits between the one who likes Grapes and Banana. The one who likes Guava doesn't sit adjacent to the one who likes Mango. E sits facing towards D, who likes Apple. B sits second to the right of C, who likes Mango. The one who likes Apple doesn't sit adjacent to the one who likes Grapes. Neither B nor E likes Guava. The person who likes Grapes sits immediately right of the one who sits opposite to F.

Q84. Four of the following five are alike in a certain way and hence form a group. Which of the following one that does not belong to that group?

(a) B - Grapes
(b) A - Apple
(c) F - Banana
(d) E - Mango
(e) D - Guava

Q85. Who among the following person sits third to the right of the one who likes Mango?

(a) The one who likes Guava
(b) The one who likes Banana
(c) F
(d) Both (1) and (2)
(e) Both (1) and (3)

Q86. Which of the following statement/s is/are not true with respect to the final arrangement?

(a) A sits second to the right of the one who likes Guava.
(b) The one who likes Mango sits to the immediate left of the one who likes Grapes.
(c) The one who likes Apple sits second to the left of C.
(d) The one who likes Banana sits facing towards E.
(e) All are true

Q87. What is the position of B with respect to the one who likes Guava?

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

Q88. Who among the following person likes Banana?

(a) F
(b) The one who sits to the immediate left of D
(c) A
(d) Both (1) and (2)
(e) Both (2) and (3)

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Directions

Study the following information carefully and answer the question given below:

In a certain code language:

“work is worship” is coded as “jk rt pq”

“work hard always” is coded as “jk mn uv”

“always do worship” is coded as “uv st pq”

“hard time passes” is coded as “mn ab ef”

Q89. Which among the following words is coded as "rt" ?

(a) work
(b) is
(c) hard
(d) time
(e) None of these

Q90. Which among the following words is coded as "ab" ?

(a) time
(b) passes
(c) is
(d) Either A or B
(e) None of these

Q91. Which of the following words is correctly matched with its code?

(a) work - rt
(b) is - jk
(c) worship - mn
(d) do - rt
(e) hard - mn

Q92. What is the code of "time passes" as per the given code language?

(a) ab uv
(b) ef jk
(c) ab ef
(d) ef rt
(e) Cannot be determined

Directions

Seven boys P, Q, R, S, T, U and V have different weights. V is heavier than Q. P is heavier than only three people. Q is heavier than P. T is heavier than S but lighter than R. U is heavier than R but lighter than Q.

Q93. How many boys are lighter than U?

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

Q94. Who is the third lightest boy?

(a) T
(b) U
(c) R
(d) P
(e) None of these

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Q95. How many boys are there between Q and T?

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

Directions

Direction: Study the following information and answer the following question.

Eight persons named E, F, G, H, I, J, K and L are sitting in a row. Some of them are facing north and some of them are facing south direction. Not more than two persons sitting next to each other are facing the same direction. E sits 2nd to the right of F. F and J face the same direction. The number of persons sitting to the right of G is the same as to the left of H. I faces north. L sits 4th to the right of J and both of them are facing opposite directions. K sits 3rd to the left of L. H sits 2nd to the right of K. Both the immediate neighbors of H face opposite directions.

Q96. Who sits second to the left of I?

(a) K
(b) The person who sits 2^(nd) to the right of F.
(c) H
(d) J
(e) The person who sits 2nd to the left of G.

Q97. How many persons are facing South?

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

Q98. How many persons are sitting between F and K?

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

Q99. The number of persons sitting between G and E is/are two less than between _____.

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

Q100. Which of the following is false?

(a) The person sitting between J and G is facing the same direction as J.
(b) The person sitting between F and E is facing the same direction as E.
(c) The person sitting between H and E is facing the same direction as H.
(d) The person sitting between L and I is facing the same direction as L.
(e) The person sitting between H and K is not facing the same direction as K.

ANSWER KEY

1	c	2	d	3	c	4	d	5	b	6	b	7	b	8	c	9	c	10	a
11	b	12	c	13	a	14	e	15	a	16	c	17	c	18	d	19	d	20	b

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

SOLUTIONS

Q1. Answer: (c) as

The solution is in Hindi. Read it online.

Q2. Answer: (d) Type

The solution is in Hindi. Read it online.

Q3. Answer: (c) by

The correct answer is option (3) i.e. ‘by’.

Key Points

• According to a study _____ the New York City Department of Consumer Affairs in 2015, women's products are typically more expensive than men's without a proper reason.

• The sentence implies that a study(noun) was conducted by the New York City Department of Consumer Affairs(noun phrase) in 2015.

• We know that two nouns or noun phrases are connected by a preposition.

• ‘By’ is the most appropriate preposition to fill in the blank.

• ‘by’ is generally used to show how something is done.

• For example: I'll travel by train.

Therefore, the correct answer is ‘by’.

Additional Information

• Let's explore the other prepositions given in the options:

• 'In' indicates location, time, or inclusion.

• Examples: She lives in New York.

• ‘To’ denotes direction, purpose, or a limit.

• Examples: She walked to the store.

• 'On' indicates location, time, or contact.

• Examples: The book is on the table.

• ‘With’ shows association, accompaniment, or means.

• Examples: She entered the room with a smile on her face.

Q4. Answer: (d) Some of the products that are included under the pink tax in India are salon services, personal care goods...

The correct answer is option (4).

Key Points

• Let's explain the true statement.

• Option 4 is true.

• As the first sentence of the last paragraph says about the example products and services that are included under the pink tax.

Therefore the correct answer is option (4).

Additional Information

• Let's explain the false statements.

• Option 1 is false.

• As the third sentence of the first paragraph says The pink tax is not enforced by the government but by the businesses selling the products.

• Option 2 is false.

• As the last sentence of the second last paragraph says the Women in Singapore have to pay MORE premiums for Careshield Life…..

• Option 3 is false.

• In the first sentence of the second last paragraph, we can see that there is no information about UAE among the given countries.

• Option 5 is false.

• As the first sentence of the second paragraph says the study conducted by the New York City Department of Consumer Affairs in 2015 NOT in 2015-2016,

Q5. Answer: (b) C and A are true

The solution is in Hindi. Read it online.

Q6. Answer: (b) Market forces, driven by supply and demand dynamics, are the primary factors behind the pricing disparity k...

The correct answer is Option (2).

Key Points

• Let's check is correct option :

• Option 2

• According to the passage, the primary reason for the pricing disparity is due to Market forces, driven by supply and demand dynamics known as the "pink tax."

• It is clearly mentioned in the second last line of the first paragraph.

• Hence, option (2) is the primary reason for the pricing inequality known as the "pink tax".

Therefore, the correct answer is “Market forces, driven by supply and demand dynamics, are the primary factors behind the pricing disparity known as the "pink tax."

Additional Information

• Let's check the other options one by one:

• Option 1

• The pricing disparity is not a result of government regulation.

• Option 3

• Gender-based taxation has not been imposed by the government. It is imposed by the business selling the products.

• Option 4

• There is no such kind of information about the guidelines of the international trade agreement regarding the pricing disparity.

• Option 5

• As per the passage Consumer preferences, influenced by advertising and social factors, are not the primary reasons for the pricing disparity.

Q7. Answer: (b) imposed

The solution is in Hindi. Read it online.

Q8. Answer: (c) Personal care/hygiene products

The solution is in Hindi. Read it online.

Q9. Answer: (c) It's a taxation form enforced by businesses where female products cost more than their male counterparts.

The solution is in Hindi. Read it online.

Q10. Answer: (a) A

The correct answer is option 1.

Key Points

• Part A of the sentence i.e. "people develop a attachment" is erroneous.

• The use of the article 'a' before 'attachment' is incorrect and it should it replaced with the article 'an' because the article 'an' is used before nouns that begin with a vowel sound, and 'attachment' has a vowel sound, so the article "a" should be replaced with "an" to make the sentence grammatically correct.

• Hence, the correct answer is A.

• The correct sentence would be: "People develop an attachment to a city because they find a sense of belonging within like-minded individuals."

Key Points

Use of articles a, an, and the -

• Article 'a' is used before nouns that begin with a consonant sound.

• For Example -

• I have a book in my purse.

• (Here, article 'a' is used before the noun 'book' because it begins with a consonant sound)

• Article 'an' is used before nouns that begin with a vowel sound.

• For Example -

• Do you want an apple for breakfast?

• (Here, the article 'an' is used before the noun 'apple' because it begins with a vowel sound)

• Article 'the' is used before both singular and plural nouns when the noun is specific.

• For Example -

• I saw the play you are talking about.

• (Here, the article 'the' is used before the noun 'play' because it is the specific play that is being talked about)

Q11. Answer: (b) B

The correct answer is option 2.

Key Points

• Part B of the sentence i.e. "alterations with our lifestyle" is erroneous.

• The preposition "with" should be replaced with "to" to make the sentence grammatically correct.

• The correct phrase is "alterations to our lifestyle" because we are talking about changes made in our lifestyle to achieve a goal. So, it should be "alterations to our lifestyle" instead of "alterations with our lifestyle."

• Hence, the correct answer is B.

• The correct sentence would be: "These are just small alterations to our lifestyle that will help us achieve that perfect body."

Q12. Answer: (c) C

The correct answer is option 3.

Key Points

• Part C of the sentence i.e. "the team of experts were" is erroneous.

• Part C of the sentence is incorrect because the subject "team" is singular, so it should be followed by the singular verb "was" instead of the plural verb "were."

• Hence, the correct answer is C.

• The correct sentence would be: "Despite their differing viewpoints on the matter, the team of experts was able to reach an agreement."

Q13. Answer: (a) A

The correct answer is option 1.

Key Points

• Part A of the sentence i.e. "when he was arriving" is erroneous.

• The phrase "was arriving" is in the past continuous tense, but the context of "last night" calls for the use of the past simple tense. Therefore, "was arriving" should be replaced with "arrived" to make the sentence grammatically correct.

• Hence, the correct answer is A.

• The correct sentence would be: "When he arrived at the party last night, she said she loved the gift, but now she regrets it deeply."

Additional Information

Let's understand past simple and past continuous tense:

• Past Simple Tense Structure:

• Subject + Verb (in past simple form) + Rest of the Sentence

• Indicators of Past Simple Tense:

• Specific time expressions (e.g., yesterday, last night, in 1999).

• Regular verbs with -ed endings (e.g., walked, talked).

• Irregular verbs (e.g., went, ate) that change form to indicate the past.

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• Signal words like "once," "twice," "before," or "after."
• For Example:
• She visited the museum yesterday. (Specific time - yesterday)
• He played basketball with his friends last night. (Specific time - last night)
• They went to the beach last summer. (Specific time - last summer)
• I read that book once. (Signal word - once)
• Past Continuous Tense Structure:
• Subject + Was/Were + Verb (ending in -ing) + Rest of the Sentence
• Indicators of Past Continuous Tense:
• The verb "was" or "were" (indicating past tense).
• A verb ending in -ing (present participle form).
• Indications of actions in progress at a specific time or duration in the past.
• For Example:
• He was studying all night. (Action in progress at a specific time - all night)
• They were playing soccer when it started raining. (Action in progress at a specific time - when it started raining)
• She was working on her project for hours. (Duration in the past - for hours)
• I was reading a book while waiting for the train. (Action in progress at a specific time - while waiting for the train)

Q14. Answer: (e) E

The solution is in Hindi. Read it online.

Q15. Answer: (a) DBCA

The solution is in Hindi. Read it online.

Q16. Answer: (c) DCBA

The solution is in Hindi. Read it online.

Q17. Answer: (c) CDBA

The solution is in Hindi. Read it online.

Q18. Answer: (d) CDAB

The solution is in Hindi. Read it online.

Q19. Answer: (d) sustainable

The solution is in Hindi. Read it online.

Q20. Answer: (b) Flaunt

The solution is in Hindi. Read it online.

Q21. Answer: (a) exaggerate

The solution is in Hindi. Read it online.

Q22. Answer: (c) emphasized

The solution is in Hindi. Read it online.

Q23. Answer: (d) B-P and C-R

The correct answer is B-P and C-R.

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.
• "We have been conducting training and skill-building workshops for new agencies".
• **Phrase B cannot be used with either phrase Q and phrase R because it would not make a meaningful sentence.
• We have been conducting training and it is important to develop protocols.
• We have been conducting training and American Medical Association is interesting.
• Phrase C of column 1 should be matched with the phrase R of column 2 to make the sentence grammatically and contextually correct.

• "The research, published in the Journal of the American Medical Association is interesting".

• **Phrase C cannot be used with either phrase P and phrase Q because it would not make a meaningful sentence.

• The research, published in the Journal of the skill-building workshops for new agencies.

• The research, published in the Journal of the it is important to develop protocols.

Q24. Answer: (d) A-P, C-R and B-Q

The correct answer is A-P, C-R and B-Q.

Key Points

Let us look at the sentence combinations:

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

• "Studies of the coronavirus are largely focusing on its ‘spike’ protein".

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

• Studies of the coronavirus are largely so far, no clear answer.

• Studies of the coronavirus are largely the Maratha reservation unconstitutional.

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

• "This is a complex question to which there is, so far, no clear answer".

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

• This is a complex question to w*hich there is* focusing on its ‘spike’ protein.

• This is a complex question to which there is the Maratha reservation unconstitutional.

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

• "The judgment declared the Maratha reservation unconstitutional".

• **Phrase C cannot be used with either phrase P and phrase Q because it would not make a meaningful sentence.

• The judgment declared focusing on its ‘spike’ protein.

• The judgment declared so far, no clear answer.

Q25. Answer: (d) All of the above

The correct answer is option 4.

Key Points

• 'The Prime Minister has stated in his speech that our country will be a five trillion economy in the coming years.' In this sentence, "stated" is the past tense of the verb "state", which means to express something definitely or clearly in speech or writing. Here, it is used correctly to convey that the Prime Minister has declared or announced something in his speech.

• 'I'm too nervous to stop in this horrid state where it never ceases raining.' Here, "state" is used as a noun referring to a nation or territory considered as an organized political community under one government. The sentence is using it to refer to a place that the speaker is nervous to stop in due to it constantly raining.

• 'It is now illegal in every state with Louisiana being the last to outlaw it in 2008.' In this sentence, "state" is once again used as a noun, but this time it refers to a territory or geographical area within a country that has its own government, laws, etc. The sentence perfectly employs this usage to mention that something is illegal in every such territory, with Louisiana being the last one to forbid it in 2008.

Q26. Answer: (a) B

The correct answer is Option (1). i.e. 'B'.

Key Points

• The given paragraph is about "the rise of social media and how the influencers use it for their marketing".

• Sentence B is the FIRST sentence as it describes the rise of social media and its revolution in various aspects.

• Sentence C is the second sentence as it talks about the emergence of influencers and how they utilize social media for marketing.

• Sentence A is the third sentence. It starts with ‘however’. It highlights that "influencer" is no longer just a buzzword but has real importance in contemporary culture.

• Sentence E is the fourth sentence as it describes how the influencers create an impression on the psychology of potential consumers.

• Sentence D is the last and final sentence as it adds something about the impact of the influencers and how they realise the buying behaviour of the consumers through their persuasive skills.

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• The correct sequence is BCAED.

Therefore, the correct answer is Sentence - B.

Additional Information

• We can easily eliminate Sentences A, D and E. Because a paragraph does not start with however or furthermore, there must be previous information. As there is no question mark why we start a sentence with ‘can’.

Q27. Answer: (b) C

The correct answer is Option (2).

Key Points

• The given paragraph is about "the rise of social media and how the influencers use it for their marketing".

• Sentence B is the first sentence as it describes the rise of social media and its revolution in various aspects.

• Sentence C is the SECOND sentence as it talks about the emergence of influencers and how they utilize social media for marketing.

• Sentence A is the third sentence. It starts with ‘however’. It highlights that "influencer" is no longer just a buzzword but has real importance in contemporary culture.

• Sentence E is the fourth sentence as it describes how the influencers create an impression on the psychology of potential consumers.

• Sentence D is the last and final sentence as it adds something about the impact of the influencers and how they realise the buying behaviour of the consumers through their persuasive skills.

• The correct sequence is BCAED.

Therefore, the Second sentence is Sentence-C.

Additional Information

• Influencer: The persons who are popular on social media.

• Example: Whenever they post something on social media, we can see lakhs of views, comments and likes within a short time on that post.

Q28. Answer: (c) A

The solution is in Hindi. Read it online.

Q29. Answer: (d) E

The correct answer is Option (4).

Key Points

• The given paragraph is about "the rise of social media and how the influencers use it for their marketing".

• Sentence B is the first sentence as it describes the rise of social media and its revolution in various aspects.

• Sentence C is the second sentence as it talks about the emergence of influencers and how they utilize social media for marketing.

• Sentence A is the third sentence. It starts with ‘however’. It highlights that "influencer" is no longer just a buzzword but has real importance in contemporary culture.

• Sentence E is the FOURTH sentence as it describes how the influencers create an impression on the psychology of potential consumers.

• Sentence D is the last and final sentence as it adds something about the impact of the influencers and how they realise the buying behaviour of the consumers through their persuasive skills.

• The correct sequence is BCAED.

Therefore, the Fourth sentence is Sentence-E.

Q30. Answer: (a) D

The correct answer is Option (1).

Key Points

• The given paragraph is about "the rise of social media and how the influencers use it for their marketing".

• Sentence B is the first sentence as it describes the rise of social media and its revolution in various aspects.

• Sentence C is the second sentence as it talks about the emergence of influencers and how they utilize social media for marketing.

• Sentence A is the third sentence. It starts with ‘however’. It highlights that "influencer" is no longer just a buzzword but has real importance in contemporary culture.

• Sentence E is the fourth sentence as it describes how the influencers create an impression on the psychology of potential consumers.

• Sentence D is the LAST and final sentence as it adds something about the impact of the influencers and how they realise the buying behaviour of the consumers through their persuasive skills.

• The correct sequence is BCAED.

Therefore, the Fourth sentence is Sentence-D.

Q31. Answer: (a) 6000

Shortcut Trick

Ratio of Profit Share of A and B is (47000 − 22000) : 22000 = 25 : 22.

Profit Ratio = Ratio of (Investment × Time).

Investment of A = 15000 × 12 months = 180000 units.

Investment of B = (15000 + Y) × 4 + 0.6(15000 + Y) × 8 = 8.8 × (15000 + Y) units.

Ratio 180000 ÷ [8.8 × (15000 + Y)] = 25 ÷ 22.

7200 ÷ (15000 + Y) = 25 ÷ 62.5 => Y = 3000.

Therefore The correct answer is 6000.

Alternate Method

Given → A's investment = Rs. 15000, B's investment = Rs. (15000 + Y), Time = 1 year, Total Profit = Rs. 47000, B's Profit = Rs. 22000.

Formulas: Profit Ratio = (Capital1 × Time1) : (Capital2 × Time2).

=> Profit of A = Total Profit − B's Profit = 47000 − 22000 = Rs. 25000.

=> Profit Ratio A : B = 25000 : 22000 = 25 : 22.

=> Equivalent Capital of A = 15000 × 12 = 180000.

=> Equivalent Capital of B = (15000 + Y) × 4 + (15000 + Y) × (1 − 0.40) × 8.

=> B's Capital = 4(15000 + Y) + 4.8(15000 + Y) = 8.8(15000 + Y).

=> A/B = 180000 ÷ [8.8(15000 + Y)] = 25 ÷ 22.

=> 180000 × 22 = 25 × 8.8 × (15000 + Y).

=> 3960000 = 220 × (15000 + Y) => 18000 = 15000 + Y => Y = 3000.

=> Value of 2Y = 2 × 3000 = 6000.

Therefore The correct answer is 6000.

Additional Information

Partnership Principles

When investments vary over time, the profit is distributed according to the weighted average of the investment relative to the time period.

Withdrawal Calculation

Removing 40% means the remaining investment is 60% (or 0.6) of the original amount for the rest of the duration.

Q32. Answer: (a) 5 1/3

Shortcut Trick

Let speed of boat in still water be u km/h and current v = 4 km/h.

Total time: 20/(u − 4) + 15/(u + 4) = 29/12 hours.

By Option/Value verification, if u = 16: 20/12 + 15/20 = 5/3 + 3/4 = (20 + 9)/12 = 29/12 (Matches).

Upstream speed = 16 − 4 = 12 km/h.

Time for 64 km upstream = 64 ÷ 12 = 16/3 = 5(1/3) hours.

Therefore The correct answer is 5(1/3) hours.

Alternate Method

Given: Upstream distance = 20 km, Downstream distance = 15 km, Current speed (v) = 4 km/h, Total time = 29/12 hours.

Formula: Time = Distance ÷ Speed; Upstream speed = u − v; Downstream speed = u + v.

=> 20/(u − 4) + 15/(u + 4) = 29/12

=> [20(u + 4) + 15(u − 4)] / (u² − 16) = 29/12

=> [20u + 80 + 15u − 60] / (u² − 16) = 29/12

=> 12(35u + 20) = 29(u² − 16)

=> 420u + 240 = 29u² − 464

=> 29u² − 420u − 704 = 0

=> Solving the quadratic equation, we get u = 16 km/h.

=> Upstream speed = 16 − 4 = 12 km/h.
=> Required time = 64 ÷ 12 = 16/3 = 5(1/3) hours.
Therefore The correct answer is 5(1/3) hours.
Additional Information
Relative Speed in Water
Downstream speed (D) = u + v and Upstream speed (U) = u − v, where u is boat speed and v is stream speed.
Calculations for u and v
Speed of boat in still water u = (D + U) ÷ 2 and speed of stream v = (D − U) ÷ 2.
Average Speed
If distances are same, average speed = (D × U) ÷ u = ($u^2 - v^2$) ÷ u.

Q33. Answer: (c) 54 days

Shortcut Trick
Days for P + Q + R = 180/11 days and P + Q = 20 days.
Total Work (LCM of 180 and 20) = 180 units.
Efficiency of R = Efficiency(P+Q+R) − Efficiency(P+Q) = 11 − 9 = 2 units/day.
60% of Total Work = 0.6 × 180 = 108 units.
Time for R = 108 ÷ 2 = 54 days.
Therefore The correct answer is 54 days.
Alternate Method
Given: Time taken by P, Q, and R = 16(4/11) days = 180/11 days. Time taken by P and Q = 20 days.

Person	Days	Total Work	Efficiency
P + Q + R	180/11	180	11
P + Q	20	9	

=> Efficiency of R = (Efficiency of P+Q+R) − (Efficiency of P+Q)
=> Efficiency of R = 11 − 9 = 2 units/day
=> 60% of Total Work = (60/100) × 180 = 108 units
=> Time taken by R alone = 108 ÷ 2 = 54 days
Therefore The correct answer is 54 days.
Additional Information
Total Work Formula
Total Work = Efficiency × Time. For fractional days, use the LCM of numerators for Total Work.
Efficiency Calculation
Efficiency of a specific person is found by subtracting the combined efficiency of others from the total group efficiency.
Percentage of Work
Time required for partial work = (Percentage of Total Work) ÷ (Efficiency of the person).

Q34. Answer: (d) 95

Shortcut Trick
Apply the Weighted Average deviation method.
Deviation of Boys = 90 − 92 = −2 per boy.
Total negative deviation for 3 boys = 3 × (−2) = −6.
To balance, 2 girls must have a total positive deviation of +6.
Deviation per Girl = +6 ÷ 2 = +3.
Average marks of girls = 92 + 3 = 95.
Therefore The correct answer is 95 marks.
Alternate Method
Given: Average marks of Boys = 90, Average of Class = 92, Ratio of Boys : Girls = 3 : 2.
Formula Used: Average of Class = (n1x1 + n2x2) ÷ (n1 + n2)
Let the average marks of Girls be x.
=> (3 × 90 + 2 × x) ÷ (3 + 2) = 92

=> (270 + 2x) ÷ 5 = 92
=> 270 + 2x = 92 × 5
=> 270 + 2x = 460
=> 2x = 460 − 270
=> 2x = 190
=> x = 95
Therefore The correct answer is 95 marks.
Additional Information
Weighted Average Formula
The overall average of two groups combined is given by A_(avg) = (n1A1 + n2A2) ÷ (n1 + n2).
Alligation Rule
Ratio of quantities = (Higher Value − Mean) : (Mean − Lower Value). This is very effective for mixture and average problems.
Deviation Method
Net sum of deviations from the mean is always zero. Use this to find missing components quickly without large calculations.

Q35. Answer: (c) Between 32% to 36%

Shortcut Trick
Let the total quantity taken out from vessel A be x litres.
Since equal quantities of milk and water are taken out, milk taken out = x/2 litres, and water taken out = x/2 litres.
Mixture P consists of 4 litres of honey, x/2 litres of milk, and x/2 litres of water.
Since water is 40% of mixture P, we have: x/2 = 40% of (4 + x) => x/2 = 0.4 × (4 + x) => x/2 = 1.6 + 0.4x => 0.5x − 0.4x = 1.6 => 0.1x = 1.6 => x = 16 litres.
Percentage of mixture taken out from vessel A = (16 ÷ 45) × 100% ≈ 35.56%, which lies between 32% to 36%.
Therefore The correct answer is Between 32% to 36%.
Alternate Method
Given:
Total volume of mixture in vessel A = 45 litres.
Quantity of honey in vessel B = 4 litres.
Equal quantities of milk and water are taken out from vessel A and added to vessel B to form mixture P.
Percentage of water in mixture P = 40%.
Calculations:
Let the quantity of milk taken out be y litres.
Therefore, the quantity of water taken out is also y litres.
=> Total quantity of mixture taken out from vessel A = 2y
=> Total quantity of mixture P in vessel B = Honey + Milk + Water = 4 + y + y = 4 + 2y
=> Water percentage in mixture P = (Water ÷ Total Mixture P) × 100
=> 40 = [y ÷ (4 + 2y)] × 100
=> 40 ÷ 100 = y ÷ (4 + 2y)
=> 0.4 = y ÷ (4 + 2y)
=> 0.4 × (4 + 2y) = y
=> 1.6 + 0.8y = y
=> 1.6 = y − 0.8y
=> 1.6 = 0.2y
=> y = 1.6 ÷ 0.2 = 8 litres
=> Total quantity taken out from vessel A = 2y = 2 × 8 = 16 litres
=> Required Percentage = (Total quantity taken out ÷ Total mixture in vessel A) × 100
=> Required Percentage = (16 ÷ 45) × 100
=> Required Percentage = 320 ÷ 9 = 35.56%
=> The percentage value 35.56% lies in the interval between 32% to 36%.
Therefore The correct answer is Between 32% to 36%.
Additional Information
Mixture Concentration Formula

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The concentration of any ingredient in a mixture is calculated as (Quantity of the ingredient ÷ Total volume of the mixture) × 100.

Equal Quantity Replacement Concept

When equal volumes of different components are removed from one container and combined in another, their ratio in the new container is 1:1, making the algebraic expression linear and easy to solve.

Q36. Answer: (c) Rs. 480

Shortcut Trick

Total CP = 400 × 2 = 800. Let CP of A be x and B be (800 − x).

Total SP = 1.1x + 1.2(800 − x) = 928.

1.1x + 960 − 1.2x = 928 => 0.1x = 32 => x = 320.

CP of B = 800 − 320 = 480.

Therefore The correct answer is Rs. 480.

Alternate Method

Given: Average CP = Rs. 400, Profit A = 10%, Profit B = 20%, Total SP = Rs. 928.

Formulas: Total CP = Average CP × 2 | SP = CP × (100 + P%)/100

=> Total Cost Price (CP) of A and B = 400 × 2 = Rs. 800.

=> Total Profit earned = Total SP − Total CP = 928 − 800 = Rs. 128.

=> Let CP of shirt B be y. Then CP of shirt A = (800 − y).

=> Profit from A + Profit from B = Total Profit.

=> (800 − y) × 10/100 + y × 20/100 = 128.

=> 80 − 0.1y + 0.2y = 128 => 0.1y = 48 => y = 480.

Therefore The correct answer is Rs. 480.

Additional Information

Alligation Method

Overall Profit % = (128/800) × 100 = 16%. Alligating 10% and 20% with mean 16% gives CP ratio of (20−16):(16−10) = 4:6 = 2:3.

Cost Price Calculation

CP of B = Total CP × (Ratio share) = 800 × (3/5) = 480.

Q37. Answer: (b) 7600

Shortcut Trick

Total Interest % in Scheme A = 15% × 2 = 30%

Total Interest % in Scheme B = 12% × 2 = 24%

Equation: 30% of x + 24% of (x + 500) = 4224

54% of x + 120 = 4224 => 54% of x = 4104 => x = 7600

Therefore The correct answer is 7600.

Alternate Method

Given:

Principal in A = x, Rate = 15%, Time = 2 years

Principal in B = x + 500, Rate = 12%, Time = 2 years

Formula Used:

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

Calculations:

=> SI_A = (x × 15 × 2) ÷ 100 = 0.30x

=> SI_B = ((x + 500) × 12 × 2) ÷ 100 = 0.24(x + 500)

=> SI_A + SI_B = 4224

=> 0.30x + 0.24x + 120 = 4224

=> 0.54x = 4224 − 120

=> 0.54x = 4104

=> x = 4104 ÷ 0.54 = 7600

Therefore The correct answer is 7600.

Additional Information

Simple Interest Calculation

Interest remains constant every year if the principal is the same. Total SI % = Rate × Time.

Effective Rate Method

To find the total value, sum the products of each principal and its effective interest rate percentage.

Q38. Answer: (d) 200 m

Shortcut Trick

Let original length be 3x and breadth be 2x.

New Area = (3x + 5) × 2x = 2600 => $6x^2 + 10x - 2600 = 0$ => $3x^2 + 5x - 1300 = 0$.

Solving for x: x = 20 (as x must be positive).

Original Perimeter = 2(3x + 2x) = 10x = 10 × 20 = 200 m.

Therefore The correct answer is 200 m.

Alternate Method

Given: Ratio of Length (L) to Breadth (B) = 3 : 2. Let L = 3x and B = 2x. New Length = 3x + 5. New Area = 2600 m^2.

Formula Used: Area of Rectangle = Length × Breadth; Perimeter = 2(Length + Breadth).

=> (3x + 5) × 2x = 2600

=> $6x^2 + 10x = 2600$

=> $6x^2 + 10x - 2600 = 0$

=> $3x^2 + 5x - 1300 = 0$

=> $3x^2 + 65x - 60x - 1300 = 0$

=> $x(3x + 65) - 20(3x + 65) = 0$

=> $(x - 20)(3x + 65) = 0$

=> x = 20 (Dimensions cannot be negative)

=> Original Length = 3 × 20 = 60 m; Original Breadth = 2 × 20 = 40 m

=> Original Perimeter = 2(60 + 40) = 2 × 100 = 200 m

Therefore The correct answer is 200 m.

Additional Information

Area and Perimeter of Rectangle

Area = Length × Breadth and Perimeter = 2 × (Length + Breadth). The diagonal of a rectangle is $\sqrt{(L^2 + B^2)}$.

Quadratic Roots Method

For a quadratic equation $ax^2 + bx + c = 0$, roots can be found using factorisation or the formula $x = [-b \pm \sqrt{(b^2 - 4ac)}] / 2a$.

Ratio and Scaling

When dimensions are in ratio a:b, always use a common multiplier x to represent actual values as ax and bx for algebraic consistency.

Q39. Answer: (c) 149

300 * 0.5 - 1 = 149

149 * 1 -1 = 148

148* 1.5 - 1 = 221

221 * 2 - 1 = 441

441 * 2.5 - 1 = 1101.5

Therefore The correct answer is 149.

Q40. Answer: (b) 100

100 - 25 = 75,

256 - 100 = 156,

476 - 256 = 220,

745 - 476 = 269,

1050 - 745 = 305

Again taking the difference

156 - 75 = 81(9^2)

220 - 156 = 64(82)

269 - 220 = 49(72)

305 - 269 = 36(6^2)

Hence 100 is the correct answer

Q41. Answer: (a) 283

283 - 68 = 215 (6^3 - 1)

407 - 283 = 124 (5^3 - 1)

470 - 407 = 63 (4^3-1)

496 - 470 = 26 (33 - 1)

503 - 496 = 7 (23 - 1)

Hence 283 is the correct answer.

Q42. Answer: (b) 59

54 + 13 = 67,

67 - 17 = 50,

50 + 13 = 63,

63 - 17 = 46

46 + 13 = 59

Next term in the series is 59

Hence next term in the series 59

Q43. Answer: (b) 61.2

61.2 - 60 = 1.2,

63.6 - 61.2 = 2.4,

70.8 - 63.6 = 7.2,

99.6 - 70.8 = 28.8,

243.6 - 99.6 = 144

Missing term in the series is 61.2

Hence 61.2 is the missing the series.

Q44. Answer: (b) 123

Given:

15, 34, 57, 86, ?, 170

Solution:

34 - 15 = 19

57 - 34 = 23

86 - 57 = 29

123 - 86 = 37

170 - 123 = 47

Therefore Missing term in the series is 123.

Important Points

The difference in the numbers 19, 23, 29, 37 & 47 are multiple of 2.

=> 23 - 19 = 4

=> 29 - 23 = 6

=> 37 - 29 = 8

=> 47 - 37 = 10

Q45. Answer: (c) 352

Number of Male who visited Museum A = 2/9 x 1701 = 378

Number of Male who visited Museum B = 11/13 x 1924 = 1628

Number of Male who visited Museum C = 13/16 x 1920 = 1560

Number of Male who visited Museum D = 19/40 x 2000 = 950

Museum	Male	Female
A	378	1323

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B	1628	296
C	1560	360
D	950	1050

Number of Male who visited Museum E = 107.69% of 1560 = 1680
Number of Female who visited Museum E = 1628 - 300 = 1328
Required difference = 1680 - 1328 = 352

Q46. Answer: (a) More than 4010%

Number of Male who visited Museum A = 2/9 x 1701 = 378
Number of Male who visited Museum B = 11/13 x 1924 = 1628
Number of Male who visited Museum C = 13/16 x 1920 = 1560
Number of Male who visited Museum D = 19/40 x 2000 = 950

Museum	Male	Female
A	378	1323
B	1628	296
C	1560	360
D	950	1050

The number of females in Rampur before Sunday = 16/31 x 1,24,000 = 64000
Total number of female population in village Rampur on Sunday = 64000 + 1323 = 65323
Required percentage = 65323/1628 x 100 = 4012.46%

Q47. Answer: (d) 2528

Number of Male who visited Museum A = 2/9 x 1701 = 378
Number of Male who visited Museum B = 11/13 x 1924 = 1628
Number of Male who visited Museum C = 13/16 x 1920 = 1560
Number of Male who visited Museum D = 19/40 x 2000 = 950

Museum	Male	Female
A	378	1323
B	1628	296
C	1560	360
D	950	1050

Average = (1323 + 296 + 360)/3 = 659.66 = 660 (Approx.)
Required difference = (1628 + 1560) - 660 = 3188 - 660 = 2528

Q48. Answer: (a) 18900

Number of Male who visited Museum A = 2/9 x 1701 = 378
Number of Male who visited Museum B = 11/13 x 1924 = 1628
Number of Male who visited Museum C = 13/16 x 800 = 650

Museum	Male	Female
A	378	1323
B	1628	296
C	650	150
D	950	1050

Revenue generated by males in Museum B = 1628 × X
Revenue generated by females in Museum B = 296(X - 5)

Total revenue = 1628 × X + 296(X - 5) = 94720
1628X + 296X - 1480 = 94720
1925X = 94720 + 1480 = 96204
X = 96200/1925 = 50(Approx)
Total revenue getting from male tickets from museum A = 378 x 50 = 18900

Q49. Answer: (d) 1948

Number of Male who visited Museum A = 2/9 x 1701 = 378
Number of Male who visited Museum B = 11/13 x 1924 = 1628
Number of Male who visited Museum C = 13/16 x 1920 = 1560
Number of Male who visited Museum D = 19/40 x 2000 = 950

Museum	Male	Female
A	378	1323
B	1628	296
C	1560	360
D	950	1050

Average = (1924 + 1920 + 2000)/3 = 1948

Q50. Answer: (a) 200

Number of Male who visited Museum A = 2/9 x 1701 = 378
Number of Male who visited Museum B = 11/13 x 1924 = 1628
Number of Male who visited Museum C = 13/16 x 1920 = 1560

Museum	Male	Female
A	378	1323
B	1628	296
C	1560	360
D	950	1050

70% of the population of Mowar village = 4200
So, on particular day, population of village = 4200 × 100/70 = 6000
then, (100 + p%) of 2000 = 6000
=> [(100 + p)/100] × 2000 = 6000
=> p = 200
The answer is option 1

Q51. Answer: (c) 95

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90
Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70

June	108	43	65

Number of articles sold by C in June and April months = 160 - 65 = 95

Q52. Answer: (a) 40

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90
Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70
June	108	43	65

Income generated by article B in June = 180 x 43 = 7740
After a discount of p%, he will get Rs. 4440
Discount = 7740 - 4440 = 3300
Discount % = (3300/ 7740) x 100 = 42.63%

Q53. Answer: (b) 81 : 160

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90
Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70
June	108	43	65

Total number of products sold by A in June = 108
Number of defective articles = 27
Number of non-defective articles = 108 - 27 = 81.
The ratio of non-defective products sold by A in June and the number of products sold by C in April = 81 : 160
Hence 81: 160 is the correct answer

Q54. Answer: (b) 5

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90

Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70
June	108	43	65

Number of TV sold by B in April = 80 x (6/10) = 48
Number of Refrigerator sold by B in April = 80 x (4/10) = 32
Difference between the total number of TVs sold by B in April and total number of products sold by B in June = 48 - 43 = 5

Q55. Answer: (a) 132.5

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90
Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70
June	108	43	65

The number of articles sold by B is May = 200
Number of articles sold by C in June = 65
Average = 265/2 = 132.5

Q56. Answer: (d) 2580

Total number of articles sold by A, B and C together in April month = 100 x 3 = 300
Total number of articles sold by A, B and C together in May month = 120 x 3 = 360
Total number of articles sold by A, B and C together in June month = 72 x 3 = 216
Number of article sold by A in April = 20% of 300 = 60
Number of article sold by A in May = 25% of 360 = 90
Number of article sold by A in June = 50% of 216 = 108
Number of article sold by B in April = 300 - (60 + 160) = 80
Number of article sold by B in May = 360 - (90 + 70) = 200
Number of article sold by B in June = 216 - (108 + 65) = 43

Months	Number of articles sold by A	Number of articles sold by B	Number of articles sold by C
April	60	80	160
May	90	200	70
June	108	43	65

Number of products sold by B in June = 43
Number of products sold by B in June to Females = 43/3
Number of products sold by B to male = (43 × 2)/3

Number of products sold by A in May = 90

Product = [(43 × 2)/3] × 90 = 2580

Q57. Answer: (e) x = y or relation between x and y can not be established.

Given:

I. x2 + 2x - 35 = 0

II. y2 - 2y - 48 = 0

Calculation:

From I,

x2 + 2x - 35 = 0

=> x2 + 7x - 5x - 35 = 0

=> x(x + 7) - 5(x + 7) = 0

=> (x + 7)(x - 5) = 0

Taking,

=> (x + 7) = 0 or (x - 5) = 0

=> x = -7 or 5

From II,

y2 - 2y - 48 = 0

=> y2 - 8y + 6y - 48 = 0

=> y(y - 8) + 6(y - 8) = 0

=> (y - 8)(y + 6) = 0

Taking,

=> (y - 8) = 0 or (x + 6) = 0

=> x = 8 or -6

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
-7	8	x < y
-7	-6	x < y
5	8	x < y
5	-6	x > y

Therefore x = y or relation between x and y can not be established.

Q58. Answer: (e) x = y or relation between x and y can not be established.

Given:

I. x2 - 10x + 16 = 0

II. y2 - 5y - 24 = 0

Calculation:

From I,

x2 - 10x + 16 = 0

=> x2 - 8x - 2x + 16 = 0

=> x(x - 8) - 2(x - 8) = 0

=> (x - 2)(x - 8) = 0

=> x = 8, 2

From II,

y2 - 5y - 24 = 0

=> y2 - 8y + 3y - 24 = 0

=> y(y - 8) + 3(y - 8) = 0

=> (y - 8)(y + 3) = 0

Taking,

=> (y - 8) = 0 or (y + 3) = 0

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=> y = 8 or (-3)

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
8	8	x = y
8	-3	x > y
2	8	x < y
2	-3	x > y

Therefore x = y or relation between x and y can not be established.

Q59. Answer: (e) x = y or relationship between x and y cannot be established

Calculation:

From I,

$x^2 – 52x + 51 = 0$

=> $x^2 – x – 51x + 51 = 0$

=> $x(x – 51) – 1(x – 51) = 0$

=> $(x – 1)(x – 51) = 0$

=> x = 1, 51

From II,

$y^2 – 57y + 56 = 0$

=> $y^2 – y – 56y + 56 = 0$

=> $y(y – 1) – 56(y – 1) = 0$

=> $(y – 56)(y – 1) = 0$

=> y = 56, 1

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
1	56	x < y
1	1	x = y
51	56	x < y
51	1	x > y

Therefore x = y or relationship between x and y cannot be established

Q60. Answer: (a) x > y

I. $x^2 – 3x + 2 = 0$

=> $x^2 – x - 2x + 2 = 0$

=> $x(x – 1) - 2(x – 1) = 0$

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

=> x = 2, 1

II. $y^2 + 12y + 36 = 0$

=> $y^2 + 6y + 6y + 36 = 0$

=> $y(y + 6) + 6(y + 6) = 0$

=> $(y + 6)^2 = 0$

=> y = –6

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
2	-6	x > y
1	-6	x > y

Therefore Clearly x > y

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Q61. Answer: (d) x ≤ y

Calculation:

From I,

$x^2 + 2x – 8 = 0$

$\Rightarrow x^2 + 4x – 2x - 8 = 0$

$\Rightarrow x(x + 4) – 2(x + 4) = 0$

$\Rightarrow (x + 4)(x – 2) = 0$

$\Rightarrow x = -4, 2$

From II,

$y^2 – 8y + 12 = 0$

$\Rightarrow y^2 – 2y – 6y + 12 = 0$

$\Rightarrow y(y – 2) – 6(y – 2) = 0$

$\Rightarrow (y – 2)(y – 6) = 0$

$\Rightarrow y = 2, 6$

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
-4	2	x < y
-4	6	x < y
2	2	x = y
2	6	x < y

Therefore x ≤ y

Q62. Answer: (a) 7

Let the number product sold by B 2015= x

The number of products sold by A in 2015 = 1.5 x

Number of Products sold by A in 2017 = 1.5x + 14

Number of Product sold by A in 2016 = (1.5x + 14)*0.9

Number of Product sold by B in 2016 = x + 1

Number of Product sold by B in 2017 = (8/3)x

Total number of products sold by B in all the three years is 1 less than the number of products sold by A and B together in 2017.

2x + (8/3)x + 1 = 1.5x + 14 + (8/3)x -1

x = 24

	2015	2016	2017
A	36	45	50
B	24	25	64

Product unsold by A in 2017 = 0.6 × 50 = 30

Product unsold by B in 2017 = 0.36 × 64 = 23.04

Difference between unsold product = 30 - 23 = 7

Q63. Answer: (e) 70

Let the number product sold by B 2015= x

The number of products sold by A in 2015 = 1.5 x

Number of Products sold by A in 2017 = 1.5x + 14

Number of Product sold by A in 2016 = (1.5x + 14)*0.9

Number of Product sold by B in 2016 = x + 1

Number of Product sold by B in 2017 = (8/3)x

Total number of products sold by B in all the three years is 1 less than the number of products sold by A and B together in 2017.

2x + (8/3)x + 1 = 1.5x + 14 + (8/3)x -1

x = 24

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	2015	2016	2017
A	36	45	50
B	24	25	64

Product sold by C in 2017 = (5/4) * 36 = 45

Sum of number of products sold by C in 2017 and that by B in 2016 = 45 + 25 = 70

Q64. Answer: (a) 27

Let the number product sold by B 2015= x

The number of products sold by A in 2015 = 1.5 x

Number of Products sold by A in 2017 = 1.5x + 14

Number of Product sold by A in 2016 = (1.5x + 14)*0.9

Number of Product sold by B in 2016 = x + 1

Number of Product sold by B in 2017 = (8/3)x

Total number of products sold by B in all the three years is 1 less than the number of products sold by A and B together in 2017.

2x + (8/3)x + 1 = 1.5x + 14 + (8/3)x -1

x = 24

	2015	2016	2017
A	36	45	50
B	24	25	64

In 2016, if 40% of the number of products sold by A were sold in the local market and rest were transported to outside, means 60% is sold to outside market

Number of products sold by A outside = 60% of 45 = 27

Q65. Answer: (c) 9:10

Let the number product sold by B 2015= x

The number of products sold by A in 2015 = 1.5 x

Number of Products sold by A in 2017 = 1.5x + 14

Number of Product sold by A in 2016 = (1.5x + 14)*0.9

Number of Product sold by B in 2016 = x + 1

Number of Product sold by B in 2017 = (8/3)x

Total number of products sold by B in all the three years is 1 less than the number of products sold by A and B together in 2017.

2x + (8/3)x + 1 = 1.5x + 14 + (8/3)x -1

x = 24

	2015	2016	2017
A	36	45	50
B	24	25	64

In 2017, B sold two types of products i.e. type X and type Y. If out of the total products sold by B in 2017, 3/8th were of type Y, then find the ratio of number of products sold by A in 2015 and number of type X products sold by B in 2017?

Number of type Y sold by B in 2017 = (3/8) * 64 = 24

Number of type X sold by B in 2017 = 64 - 24 = 40

Ratio of of number of products sold by A in 2015 and number of type X products sold by B in 2017 = 36 : 40 = 9 : 10

Q66. Answer: (d) Six

Given word - “BONAFIDE”

There are a total of 6 pairs of letters in the word which has as many letters between them as there are in the English alphabetical series, 4 pairs forward and 2 pairs backward.

Hence, the correct answer is Six.

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Q67. Answer: (e) X

The 2nd, 5th, 7th, and 11th letters from the left end of the word "SHOWERING" are H, E, I and G respectively.

No any four-letter meaningful word can be formed using the letters H, E, I and G.

If no meaningful word is formed, then we have to mark X as our answer.

Hence, the correct answer is X.

Q68. Answer: (c) Neither I nor II follow.

The least possible Venn Diagram for the given statements will be as follows,

I. All inequality can be coding → False (as no puzzle is coding and some puzzle is inequality therefore some inequality which is puzzle is not coding. Certainly, all inequality can never be coding)

II. Some puzzle is not input → False (as we cannot established any relation between puzzle and input that's why it would be considered as false)

Hence, neither I nor II follow.

Q69. Answer: (e) Only II follow

The least possible Venn Diagram for the given statements will be as follows,

I. Some false can be wrong → False (as no false is correct and all wrong is correct. certainly, no false is wrong)

II. Some true can be correct → True (as we know only some true cannot be correct but there might be some true which is correct. So, the possibility holds true)

Hence, only II follow.

Q70. Answer: (e) C lives on an even-numbered floor.

Given:

Ten persons

Ten floors in the same building.

The ground floor is numbered 1 and the topmost floor is numbered 10.

1) N lives on an even number floor above the sixth floor. It means N either lives on the eighth or tenth floor.

2) Only two persons live between N and A.

3) Only three floors are there between A and J who does not live on the ninth floor.

Floors	Case I	Case II
10		N
9		
8	N	
7		A
6		
5	A	
4		
3		J
2		
1	J	

4) More than four floors between J and B who lives below N. it means there are atleast five floors between J and B.

5) Only three persons live between B and H.

6) The number of floors between N and H same as the number of floors between J and F.

Floors	Case I	Case II
10		N
9		B
8	N	F
7	B	A

6	F	
5	A	H
4		
3	H	J
2		
1	J	

7) G lives on the prime number floor. It means G lives on the second floor.

8) G lives below D and above E. This is not possible in Case I so it gets eliminated.

9) C does not live on the sixth floor. It means D lives on the sixth floor and C lives on the fourth floor.

Thus, the final arrangement is -

Floors	Case II
10	N
9	B
8	F
7	A
6	D
5	H
4	C
3	J
2	G
1	E

Hence, the correct answer is C lives on an even-numbered floor.

Q71. Answer: (b) A

Given:

Ten persons

Ten floors in the same building.

The ground floor is numbered 1 and the topmost floor is numbered 10.

1) N lives on an even number floor above the sixth floor. It means N either lives on the eighth or tenth floor.

2) Only two persons live between N and A.

3) Only three floors are there between A and J who does not live on the ninth floor.

Floors	Case I	Case II
10		N
9		
8	N	
7		A
6		
5	A	
4		
3		J
2		
1	J	

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4) More than four floors between J and B who lives below N. it means there are atleast five floors between J and B.

5) Only three persons live between B and H.

6) The number of floors between N and H same as the number of floors between J and F.

Floors	Case I	Case II
10		N
9		B
8	N	F
7	B	A
6	F	
5	A	H
4		
3	H	J
2		
1	J	

7) G lives on the prime number floor. It means G lives on the second floor.

8) G lives below D and above E. This is not possible in Case I so it gets eliminated.

9) C does not live on the sixth floor. It means D lives on the sixth floor and C lives on the fourth floor.

Thus, the final arrangement is -

Floors	Case II
10	N
9	B
8	F
7	A
6	D
5	H
4	C
3	J
2	G
1	E

A lives on the floor immediately above D.

The correct answer is A.

Q72. Answer: (c) D

Given:

Ten persons

Ten floors in the same building.

The ground floor is numbered 1 and the topmost floor is numbered 10.

1) N lives on an even number floor above the sixth floor. It means N either lives on the eighth or tenth floor.

2) Only two persons live between N and A.

3) Only three floors are there between A and J who does not live on the ninth floor.

Floors	Case I	Case II
10		N
9		

8	N	
7		A
6		
5	A	
4		
3		J
2		
1	J	

4) More than four floors between J and B who lives below N. it means there are atleast five floors between J and B.

5) Only three persons live between B and H.

6) The number of floors between N and H same as the number of floors between J and F.

Floors	Case I	Case II
10		N
9		B
8	N	F
7	B	A
6	F	
5	A	H
4		
3	H	J
2		
1	J	

7) G lives on the prime number floor. It means G lives on the second floor.

8) G lives below D and above E. This is not possible in Case I so it gets eliminated.

9) C does not live on the sixth floor. It means D lives on the sixth floor and C lives on the fourth floor.

Thus, the final arrangement is -

Floors	Case II
10	N
9	B
8	F
7	A
6	D
5	H
4	C
3	J
2	G
1	E

D lives on floor number 6.

The correct answer is D.

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Q73. Answer: (d) Six

Given:

Ten persons

Ten floors in the same building.

The ground floor is numbered 1 and the topmost floor is numbered 10.

1) N lives on an even number floor above the sixth floor. It means N either lives on the eighth or tenth floor.

2) Only two persons live between N and A.

3) Only three floors are there between A and J who does not live on the ninth floor.

Floors	Case I	Case II
10		N
9		
8	N	
7		A
6		
5	A	
4		
3		J
2		
1	J	

4) More than four floors between J and B who lives below N. it means there are atleast five floors between J and B.

5) Only three persons live between B and H.

6) The number of floors between N and H same as the number of floors between J and F.

Floors	Case I	Case II
10		N
9		B
8	N	F
7	B	A
6	F	
5	A	H
4		
3	H	J
2		
1	J	

7) G lives on the prime number floor. It means G lives on the second floor.

8) G lives below D and above E. This is not possible in Case I so it gets eliminated.

9) C does not live on the sixth floor. It means D lives on the sixth floor and C lives on the fourth floor.

Thus, the final arrangement is -

Floors	Case II
10	N
9	B
8	F
7	A

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6	D
5	H
4	C
3	J
2	G
1	E

Six persons live between the floors of G and B.

The correct answer is Six.

Q74. Answer: (d) D and A

Given:

Ten persons

Ten floors in the same building.

The ground floor is numbered 1 and the topmost floor is numbered 10.

1) N lives on an even number floor above the sixth floor. It means N either lives on the eighth or tenth floor.

2) Only two persons live between N and A.

3) Only three floors are there between A and J who does not live on the ninth floor.

Floors	Case I	Case II
10		N
9		
8	N	
7		A
6		
5	A	
4		
3		J
2		
1	J	

4) More than four floors between J and B who lives below N. it means there are atleast five floors between J and B.

5) Only three persons live between B and H.

6) The number of floors between N and H same as the number of floors between J and F.

Floors	Case I	Case II
10		N
9		B
8	N	F
7	B	A
6	F	
5	A	H
4		
3	H	J
2		
1	J	

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7) G lives on the prime number floor. It means G lives on the second floor.

8) G lives below D and above E. This is not possible in Case I so it gets eliminated.

9) C does not live on the sixth floor. It means D lives on the sixth floor and C lives on the fourth floor.

Thus, the final arrangement is -

Floors	Case II
10	N
9	B
8	F
7	A
6	D
5	H
4	C
3	J
2	G
1	E

A and D live on the floors exactly between F and H.

The correct answer is A and D.

Q75. Answer: (d) F

Preparing the family tree using the following symbol:

From the given instructions:

1) H is the sister-in-law of G, who is the spouse of E. F is the daughter of E and mother of D, who is the granddaughter of G. So, we can say,

2) E is the daughter-in-law of C, who is the husband of A. D and H are not married. As, there are three married couples and both parents are alive in the family F is married to B.

Number of Female is more than male, D will be female.

So, Finally:

So, F is the spouse of B.

Q76. Answer: (c) Grandmother

Preparing the family tree using the following symbol:

From the given instructions:

1) H is the sister-in-law of G, who is the spouse of E. F is the daughter of E and mother of D, who is the granddaughter of G. So, we can say,

2) E is the daughter-in-law of C, who is the husband of A. D and H are not married. As, there are three married couples and both parents are alive in the family F is married to B.

Number of Female is more than male, D will be female.

So, Finally:

So, A is the grandmother of F.

Q77. Answer: (b) Five

Preparing the family tree using the following symbol:

From the given instructions:

1) H is the sister-in-law of G, who is the spouse of E. F is the daughter of E and mother of D, who is the granddaughter of G. So, we can say,

2) E is the daughter-in-law of C, who is the husband of A. D and H are not married. As, there are three married couples and both parents are alive in the family F is married to B.

Number of Female is more than male, D will be female.

So, Finally:

So, Five female members are there in the family.

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Q78. Answer: (b) Four

Given Word - FRONTIER

If all the letters of the word “FRONTIER” are arranged in alphabetical order starting from the left end, then we get - EFINORRT

N is fifth from the right end and I is fourth to the left of the seventh letter from the left end that is R.

There are four letters between I and N in alphabetical order. (J, K, L and M)

Hence, the correct answer is Four.

Q79. Answer: (c) The one who visited France

Given:

Six persons - P, Q, R, S, T, and U

Six countries - Russia, Canada, Japan, Netherlands, France, and China.

Two dates - 11 or 22

Three months - September, October, and November

Now,

1) P attended two persons before the one who visited Japan.

2) At least three persons attended after P.

3) Only two persons attended between P and S.

Month	Date	Case I	Case II	Case III
September	11			P
22		P		
October	11	P		(Japan)
22		(Japan)	S	
November	11	(Japan)	S	
22	S			

4) The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. This is not possible in Case III so it gets eliminated.

5) U attended immediately after the one who visited China.

6) U neither visited Japan nor the Netherlands.

Month	Date	Case I	Case II
September	11	(Russia)	
22		P (Russia)	
October	11	P (China)	
22	U	(Japan)	
November	11	(Japan)	S (China)
22	S	U	

7) R attended on an odd number date but after P.

8) T neither visited Russia nor Japan.

Month	Date	Case I	Case II
September	11	Q (Russia)	T
22	T	P (Russia)	
October	11	P (China)	R
22	U	Q (Japan)	
November	11	R (Japan)	S (China)

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22	S	U	

9) Q attended immediately before the one who visited France. This is not possible in Case II so it gets eliminated.

Thus, the final arrangement is -

Month	Date	Case I
September	11	Q (Russia)
22	T (France)	
October	11	P (China)
22	U (Canada)	
November	11	R (Japan)
22	S (Netherlands)	

T, who visited France, attended the meeting on September 22.

The correct answer is The one who visited in France.

Q80. Answer: (b) Only two persons attended between Q and U.

Given:

Six persons - P, Q, R, S, T, and U

Six countries - Russia, Canada, Japan, Netherlands, France, and China.

Two dates - 11 or 22

Three months - September, October, and November

Now,

1) P attended two persons before the one who visited Japan.

2) At least three persons attended after P.

3) Only two persons attended between P and S.

Month	Date	Case I	Case II	Case III
September	11			P
22		P		
October	11	P		(Japan)
22		(Japan)	S	
November	11	(Japan)	S	
22	S			

4) The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. This is not possible in Case III so it gets eliminated.

5) U attended immediately after the one who visited China.

6) U neither visited Japan nor the Netherlands.

Month	Date	Case I	Case II
September	11	(Russia)	
22		P (Russia)	
October	11	P (China)	
22	U	(Japan)	
November	11	(Japan)	S (China)
22	S	U	

7) R attended on an odd number date but after P.

8) T neither visited Russia nor Japan.

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Month	Date	Case I	Case II
September	11	Q (Russia)	T
22	T	P (Russia)	
October	11	P (China)	R
22	U	Q (Japan)	
November	11	R (Japan)	S (China)
22	S	U	

9) Q attended immediately before the one who visited France. This is not possible in Case II so it gets eliminated.

Thus, the final arrangement is -

Month	Date	Case I
September	11	Q (Russia)
22	T (France)	
October	11	P (China)
22	U (Canada)	
November	11	R (Japan)
22	S (Netherlands)	

The correct answer is Only two persons attended between Q and U.

Q81. Answer: (d) Japan

Given:

Six persons - P, Q, R, S, T, and U

Six countries - Russia, Canada, Japan, Netherlands, France, and China.

Two dates - 11 or 22

Three months - September, October, and November

Now,

1) P attended two persons before the one who visited Japan.

2) At least three persons attended after P.

3) Only two persons attended between P and S.

Month	Date	Case I	Case II	Case III
September	11			P
22		P		
October	11	P		(Japan)
22		(Japan)	S	
November	11	(Japan)	S	
22	S			

4) The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. This is not possible in Case III so it gets eliminated.

5) U attended immediately after the one who visited China.

6) U neither visited Japan nor the Netherlands.

Month	Date	Case I	Case II
September	11	(Russia)	
22		P (Russia)	
October	11	P (China)	

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22	U	(Japan)	
November	11	(Japan)	S (China)
22	S	U	

7) R attended on an odd number date but after P.

8) T neither visited Russia nor Japan.

Month	Date	Case I	Case II
September	11	Q (Russia)	T
22	T	P (Russia)	
October	11	P (China)	R
22	U	Q (Japan)	
November	11	R (Japan)	S (China)
22	S	U	

9) Q attended immediately before the one who visited France. This is not possible in Case II so it gets eliminated.

Thus, the final arrangement is -

Month	Date	Case I
September	11	Q (Russia)
22	T (France)	
October	11	P (China)
22	U (Canada)	
November	11	R (Japan)
22	S (Netherlands)	

R visited Japan.

The correct answer is Japan.

Q82. Answer: (a) Two

Given:

Six persons - P, Q, R, S, T, and U

Six countries - Russia, Canada, Japan, Netherlands, France, and China.

Two dates - 11 or 22

Three months - September, October, and November

Now,

1) P attended two persons before the one who visited Japan.

2) At least three persons attended after P.

3) Only two persons attended between P and S.

Month	Date	Case I	Case II	Case III
September	11			P
22		P		
October	11	P		(Japan)
22		(Japan)	S	
November	11	(Japan)	S	
22	S			

4) The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. This is not possible in Case III so it gets eliminated.

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5) U attended immediately after the one who visited China.

6) U neither visited Japan nor the Netherlands.

Month	Date	Case I	Case II
September	11	(Russia)	
22		P (Russia)	
October	11	P (China)	
22	U	(Japan)	
November	11	(Japan)	S (China)
22	S	U	

7) R attended on an odd number date but after P.

8) T neither visited Russia nor Japan.

Month	Date	Case I	Case II
September	11	Q (Russia)	T
22	T	P (Russia)	
October	11	P (China)	R
22	U	Q (Japan)	
November	11	R (Japan)	S (China)
22	S	U	

9) Q attended immediately before the one who visited France. This is not possible in Case II so it gets eliminated.

Thus, the final arrangement is -

Month	Date	Case I
September	11	Q (Russia)
22	T (France)	
October	11	P (China)
22	U (Canada)	
November	11	R (Japan)
22	S (Netherlands)	

Two persons attended before the one who visited China.

The correct answer is Two.

Q83. Answer: (e) November 22

Given:

Six persons - P, Q, R, S, T, and U

Six countries - Russia, Canada, Japan, Netherlands, France, and China.

Two dates - 11 or 22

Three months - September, October, and November

Now,

1) P attended two persons before the one who visited Japan.

2) At least three persons attended after P.

3) Only two persons attended between P and S.

Month	Date	Case I	Case II	Case III
September	11			P
22		P		

October	11	P		(Japan)
22		(Japan)	S	
November	11	(Japan)	S	
22	S			

4) The number of persons who attended before S is the same as the number of persons who attended the meeting after the one who visited Russia. This is not possible in Case III so it gets eliminated.

5) U attended immediately after the one who visited China.

6) U neither visited Japan nor the Netherlands.

Month	Date	Case I	Case II
September	11	(Russia)	
22		P (Russia)	
October	11	P (China)	
22	U	(Japan)	
November	11	(Japan)	S (China)
22	S	U	

7) R attended on an odd number date but after P.

8) T neither visited Russia nor Japan.

Month	Date	Case I	Case II
September	11	Q (Russia)	T
22	T	P (Russia)	
October	11	P (China)	R
22	U	Q (Japan)	
November	11	R (Japan)	S (China)
22	S	U	

9) Q attended immediately before the one who visited France. This is not possible in Case II so it gets eliminated.

Thus, the final arrangement is -

Month	Date	Case I
September	11	Q (Russia)
22	T (France)	
October	11	P (China)
22	U (Canada)	
November	11	R (Japan)
22	S (Netherlands)	

S attended the meeting on 22 November

The correct answer is November 22.

Q84. Answer: (c) F - Banana

Given:

Six persons - A, B, C, D, E, and F

Circular table - Facing center.

Six fruits -. Mango, Apple, Orange, Banana, Guava, and Grapes.

Now,

1) The person who likes Grapes sits immediately right of the one who sits opposite to F.

2) Only one person sits between the one who likes Grapes and Banana.

3) E sits facing towards D, who likes Apple.

4) The one who likes Apple doesn't sit adjacent to the one who likes Grapes.

5) B sits second to the right of C, who likes Mango.

6) Neither B nor E likes Guava. This is not possible in Case I so it gets eliminated.

7) The one who likes Guava doesn't sit adjacent to the one who likes Mango. This condition is not satisfied in Case I (b) so it gets eliminated.

Thus, the final arrangement is -

The correct answer is F - Banana.

Q85. Answer: (e) Both (1) and (3)

Given:

Six persons - A, B, C, D, E, and F

Circular table - Facing center.

Six fruits -. Mango, Apple, Orange, Banana, Guava, and Grapes.

Now,

1) The person who likes Grapes sits immediately right of the one who sits opposite to F.

2) Only one person sits between the one who likes Grapes and Banana.

3) E sits facing towards D, who likes Apple.

4) The one who likes Apple doesn't sit adjacent to the one who likes Grapes.

5) B sits second to the right of C, who likes Mango.

6) Neither B nor E likes Guava. This is not possible in Case I so it gets eliminated.

7) The one who likes Guava doesn't sit adjacent to the one who likes Mango. This condition is not satisfied in Case I (b) so it gets eliminated.

Thus, the final arrangement is -

F, who likes Guava, sits third to the right of the one who likes Mango.

The correct answer is Both (1) and (3).

Q86. Answer: (d) The one who likes Banana sits facing towards E.

Given:

Six persons - A, B, C, D, E, and F

Circular table - Facing center.

Six fruits -. Mango, Apple, Orange, Banana, Guava, and Grapes.

Now,

1) The person who likes Grapes sits immediately right of the one who sits opposite to F.

2) Only one person sits between the one who likes Grapes and Banana.

3) E sits facing towards D, who likes Apple.

4) The one who likes Apple doesn't sit adjacent to the one who likes Grapes.

5) B sits second to the right of C, who likes Mango.

6) Neither B nor E likes Guava. This is not possible in Case I so it gets eliminated.

7) The one who likes Guava doesn't sit adjacent to the one who likes Mango. This condition is not satisfied in Case I (b) so it gets eliminated.

Thus, the final arrangement is -

The correct answer is The one who likes Banana sits facing towards E.

Q87. Answer: (b) Immediate left

Given:

Six persons - A, B, C, D, E, and F

Circular table - Facing center.

Six fruits -. Mango, Apple, Orange, Banana, Guava, and Grapes.

Now,

1) The person who likes Grapes sits immediately right of the one who sits opposite to F.

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2) Only one person sits between the one who likes Grapes and Banana.

3) E sits facing towards D, who likes Apple.

4) The one who likes Apple doesn't sit adjacent to the one who likes Grapes.

5) B sits second to the right of C, who likes Mango.

6) Neither B nor E likes Guava. This is not possible in Case I so it gets eliminated.

7) The one who likes Guava doesn't sit adjacent to the one who likes Mango. This condition is not satisfied in Case I (b) so it gets eliminated.

Thus, the final arrangement is -

B sits immediate left to the one who likes Guava.

The correct answer is Immediate left.

Q88. Answer: (c) A

Given:

Six persons - A, B, C, D, E, and F

Circular table - Facing center.

Six fruits -. Mango, Apple, Orange, Banana, Guava, and Grapes.

Now,

1) The person who likes Grapes sits immediately right of the one who sits opposite to F.

2) Only one person sits between the one who likes Grapes and Banana.

3) E sits facing towards D, who likes Apple.

4) The one who likes Apple doesn't sit adjacent to the one who likes Grapes.

5) B sits second to the right of C, who likes Mango.

6) Neither B nor E likes Guava. This is not possible in Case I so it gets eliminated.

7) The one who likes Guava doesn't sit adjacent to the one who likes Mango. This condition is not satisfied in Case I (b) so it gets eliminated.

Thus, the final arrangement is -

A likes Banana.

The correct answer is A.

Q89. Answer: (b) is

Here the code for the given world will be,

There will be possibility between the word time and passes and the code will be ab/ef.

'rt' code is for 'Is' word.

Q90. Answer: (d) Either A or B

Here the code for the given world will be,

There will be possibility between the word time and passes and the code will be ab/ef.

Either A or B.

Q91. Answer: (e) hard - mn

Here the code for the given world will be,

There will be possibility between the word time and passes and the code will be ab/ef.

Hard - mn will be the correct pair.

Q92. Answer: (c) ab ef

Here the code for the given world will be,

There will be possibility between the word time and passes and the code will be ab/ef.

Hence, 'ab ef' is the code for 'time passes'.

Q93. Answer: (b) Four

From the given instructions:

1) V is heavier than Q. Q is heavier than P. P is heavier than only three people. So, we have two cases;

Case 1:

V/ > V/ > Q > P > > > __

Case 2:

V > Q > > P > > >

2) T is heavier than S but lighter than R. U is heavier than R but lighter than Q. So, Case 1 is invalid.

So, Final Arrangement,

V > Q > U > P > R > T > S

Four boys are lighter than U.

Q94. Answer: (c) R

From the given instructions:

1) V is heavier than Q. Q is heavier than P. P is heavier than only three people. So, we have two cases;

Case 1:

V/ > V/ > Q > P > > > __

Case 2:

V > Q > > P > > >

2) T is heavier than S but lighter than R. U is heavier than R but lighter than Q. So, Case 1 is invalid.

So, Final Arrangement,

V > Q > U > P > R > T > S

R is the third lightest boy.

Q95. Answer: (a) Three

From the given instructions:

1) V is heavier than Q. Q is heavier than P. P is heavier than only three people. So, we have two cases;

Case 1:

V/ > V/ > Q > P > > > __

Case 2:

V > Q > > P > > >

2) T is heavier than S but lighter than R. U is heavier than R but lighter than Q. So, Case 1 is invalid.

So, Final Arrangement,

V > Q > U > P > R > T > S

Three boys are there boys between Q and T.

Q96. Answer: (e) The person who sits 2nd to the left of G.

Given -

8 persons - E, F, G, H, I, J, K, and L

Some face North and some face South. Not more than two persons sitting next to each other are facing the same direction.

1) L sits 4th to the right of J and both of them are facing opposite directions. Here, there are two cases, I - J faces North and L faces South, II - J faces South and L faces North.

2) K sits 3rd to the left of L.

3) H sits 2nd to the right of K. In Case I K faces South and in Case II, K faces North.

4) Both the immediate neighbors of H face opposite directions.

5) The number of persons sitting to the right of G is the same as to the left of H. In Case I, G will sit third from the left end and in Case II, G will sit third from the right end.

6) E sits 2nd to the right of F. This is possible only if in both cases, E and F are immediate neighbors of G.

7) F and J face the same direction. In case I, F will face North and in Case II, F will face South.

8) I faces north. This is possible only in Case I and Case II will get eliminated.

G will face South as not more than two persons face the same direction. From 5), H also faces South. Therefore, E will face North.

The final arrangement is -

L sits second to the left of I. L sits 2nd to the left of G.

The correct answer is The person who sits 2nd to the left of G.

Q97. Answer: (d) Four

Given -

8 persons - E, F, G, H, I, J, K, and L

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Some face North and some face South. Not more than two persons sitting next to each other are facing the same direction.

1) L sits 4th to the right of J and both of them are facing opposite directions. Here, there are two cases, I - J faces North and L faces South, II - J faces South and L faces North.

2) K sits 3rd to the left of L.

3) H sits 2nd to the right of K. In Case I K faces South and in Case II, K faces North.

4) Both the immediate neighbors of H face opposite directions.

5) The number of persons sitting to the right of G is the same as to the left of H. In Case I, G will sit third from the left end and in Case II, G will sit third from the right end.

6) E sits 2nd to the right of F. This is possible only if in both cases, E and F are immediate neighbors of G.

7) F and J face the same direction. In case I, F will face North and in Case II, F will face South.

8) I faces north. This is possible only in Case I and Case II will get eliminated.

G will face South as not more than two persons face the same direction. From 5), H also faces South. Therefore, E will face North.

The final arrangement is -

Four persons are facing South.

The correct answer is Four.

Q98. Answer: (b) Five

Given -

8 persons - E, F, G, H, I, J, K, and L

Some face North and some face South.

Not more than two persons sitting next to each other are facing the same direction.

1) L sits 4th to the right of J and both of them are facing opposite directions. Here, there are two cases, I - J faces North and L faces South, II - J faces South and L faces North.

2) K sits 3rd to the left of L.

3) H sits 2nd to the right of K. In Case I K faces South and in Case II, K faces North.

4) Both the immediate neighbors of H face opposite directions.

5) The number of persons sitting to the right of G is the same as to the left of H. In Case I, G will sit third from the left end and in Case II, G will sit third from the right end.

6) E sits 2nd to the right of F. This is possible only if in both cases, E and F are immediate neighbors of G.

7) F and J face the same direction. In case I, F will face North and in Case II, F will face South.

8) I faces north. This is possible only in Case I and Case II will get eliminated.

G will face South as not more than two persons face the same direction. From 5), H also faces South. Therefore, E will face North.

The final arrangement is -

Five persons are sitting between F and K

The correct answer is Five.

Q99. Answer: (c) K and L

Given -

8 persons - E, F, G, H, I, J, K, and L

Some face North and some face South. Not more than two persons sitting next to each other are facing the same direction.

1) L sits 4th to the right of J and both of them are facing opposite directions. Here, there are two cases, I - J faces North and L faces South, II - J faces South and L faces North.

2) K sits 3rd to the left of L.

3) H sits 2nd to the right of K. In Case I K faces South and in Case II, K faces North.

4) Both the immediate neighbors of H face opposite directions.

5) The number of persons sitting to the right of G is the same as to the left of H. In Case I, G will sit third from the left end and in Case II, G will sit third from the right end.

6) E sits 2nd to the right of F. This is possible only if in both cases, E and F are immediate neighbors of G.

7) F and J face the same direction. In case I, F will face North and in Case II, F will face South.

8) I faces north. This is possible only in Case I and Case II will get eliminated.

G will face South as not more than two persons face the same direction. From 5), H also faces South. Therefore, E will face North.

The final arrangement is -

The number of persons sitting between G and E is zero which is two less than between K and L.

The correct answer is K and L.

Q100. Answer: (b) The person sitting between F and E is facing the same direction as E.

Given -

8 persons - E, F, G, H, I, J, K, and L

Some face North and some face South. Not more than two persons sitting next to each other are facing the same direction.

1) L sits 4th to the right of J and both of them are facing opposite directions. Here, there are two cases, I - J faces North and L faces South, II - J faces South and L faces North.

2) K sits 3rd to the left of L.

3) H sits 2nd to the right of K. In Case I K faces South and in Case II, K faces North.

4) Both the immediate neighbors of H face opposite directions.

5) The number of persons sitting to the right of G is the same as to the left of H. In Case I, G will sit third from the left end and in Case II, G will sit third from the right end.

6) E sits 2nd to the right of F. This is possible only if in both cases, E and F are immediate neighbors of G.

7) F and J face the same direction. In case I, F will face North and in Case II, F will face South.

8) I faces north. This is possible only in Case I and Case II will get eliminated.

G will face South as not more than two persons face the same direction. From 5), H also faces South. Therefore, E will face North.

The final arrangement is -

The person sitting between F and E is not facing the same direction as E.

The correct answer is The person sitting between F and E is facing the same direction as E.

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