SBI PO Prelims Memory Based Paper (Held On: 19 Dec 2022 Shift 1) (Previous Year Paper)

SBI Probationary Officer (PO) • 2022 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Directions

Directions: Read the passage given below and answer the questions that follow by choosing the correct/most appropriate options:

The morning of June 27th was clear and sunny, with the fresh warmth of a full-summer day; the flowers were blossoming profusely and the grass was richly green. The people of the village began to gather in the square, between the post office and the bank, around ten o'clock; in some towns, there were so many people that the lottery took two days and had to be started on June 27th but in this village, where there were only about three hundred people, the whole lottery took less than two hours, so it could begin at ten o'clock in the morning and still be through in time to allow the villagers to get home for noon dinner. The children assembled first, of course. The school was recently over for the summer, and the feeling of liberty sat uneasily on most of them; they tended to gather together quietly for a while before they broke into boisterous play and their talk was still of the classroom and the teacher, of books and reprimands. Bobby Martin had already stuffed his pockets full of stones, and the other boys soon followed his example, selecting the smoothest and roundest stones; Bobby and Harry Jones and Dickie Delacroix-- the villagers pronounced this name "Dellacroy"--eventually made a great pile of stones in one corner of the square and guarded it against the raids of the other boys. The girls stood aside, talking among themselves, looking over their shoulders at rolled in the dust or clung to the hands of their older brothers or sisters.

Soon the men began to gather surveying their own children, speaking of planting and rain, tractors, and taxes. They stood together, away _____ the pile of stones in the corner, and their jokes were quiet and they smiled rather than laughed. The women, wearing faded house dresses and sweaters, came shortly after their menfolk. They greeted one another and exchanged bits of gossip as they went to join their husbands. Soon the women, standing by their husbands, began to call to their children, and the children came reluctantly, having to be called four or five times. Bobby Martin ducked under his mother's grasping hand and ran, laughing, back to the pile of stones. His father spoke up sharply, and Bobby came quickly and took his place between his father and his oldest brother. The lottery was conducted--as were the square dances, the teen club, and the Halloween program--by Mr. Summers who had time and energy to devote to civic activities. He was a round-faced, jovial man and he ran the coal business, and people were sorry for him because he had no children and his wife was a scold. When he arrived in the square, carrying the black wooden box, there was a murmur of conversation among the villagers, and he waved and called "Little late today, folks." The postmaster, Mr. Graves, followed him, carrying a three-legged stool, and the stool was put in the center of the square and Mr. Summers set the black box down on it. The villagers kept their distance, leaving a space between themselves and the stool and when Mr. Summers said, "Some of you fellows want to give me a hand?" there was a hesitation before two men. Mr. Martin and his oldest son, Baxter came forward to hold the box steady on the stool while Mr. Summers stirred up the papers inside it.

Q1. Choose the synonym of the word 'Liberty'.

- **(a)** Subjugation
- **(b)** Captivity
- **(c)** Dependence
- **(d)** Emancipation
- **(e)** Internment

Q2. Who is the postmaster in the passage?

- **(a)** Mr. Martin.
- **(b)** Mr. Summers.
- **(c)** Baxter.

(d) Bobby Martin.
(e) Mr. Graves.

Q3. Which of the following is/are correct according to the given passage?

A. The women wearing faded house dresses came before their menfolk.
B. The morning of June 27th was clear and sunny.
C. Bobby Martin had stuffed his pockets full of chocolates.

(a) Only A
(b) Both A and B
(c) Only B
(d) Both B and C
(e) Only C

Q4. Choose the most appropriate meaning of the given idiom from the passage:

For a while

(a) A short period of time
(b) To pass time in a leisurely manner.
(c) In spite of the fact that.
(d) Contrasting two ideas.
(e) During the time that.

Q5. Choose the antonym of the word 'Boisterous'.

(a) Exuberant
(b) Frisky
(c) Restrained
(d) Spirited
(e) Rambunctious

Q6. What will fit in the blank taken from the passage: "They stood together, away _____ the pile of stones in the corner, and their jokes were quiet and they smiled rather than laughed."

(a) Inside
(b) After
(c) From
(d) Before
(e) On

Q7. Which of the following is/are incorrect according to the given passage?

A. When the women began to call their children, the children came enthusiastically.
B. Mr. Summers was unmarried.
C. Bobby Martin ran back to the pile of stones.

(a) Only A
(b) Both A and B
(c) Only B
(d) Both B and C
(e) Only C

Q8. Who is in charge of organizing and conducting the annual lottery?

(a) Mr. Martin.
(b) Mr. Summers.
(c) Baxter.
(d) Bobby Martin.
(e) Mr. Graves.

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Q9. According to the passage, how many people live in the village?

(a) Less than 100.
(b) Just under a thousand.
(c) About 500.
(d) About 300.
(e) More than thousand.

Q10. According to the passage, what are the men doing before it is time for the lottery to begin?

(a) Standing in a group but not talking
(b) Avoiding each other's eyes
(c) Standing in a group talking about tractors and rain
(d) Standing together and talking about women
(e) Standing together and talking politics

Q11. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows select option 5 as your answer.

The girls were **permitted** to camp in the forest overnight but only if they were very responsible.

(a) Suffocated
(b) Pacified
(c) Allowed
(d) Forbidden
(e) None

Q12. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows select option 5 as your answer.

The music system was **shattered** when it fell off the roof of the car.

(a) Broken
(b) Sealed
(c) Repaired
(d) Sewed
(e) None

Q13. In the given sentence a word has been emboldened. Select the best alternative for the bold word from the given options. If none follows select option 5 as your answer.

Sharon's brand new car was **hauled** away by the police for not having a number plate.

(a) Torn
(b) Towed
(c) Alienated
(d) Placed
(e) None

Q14. Direction: A sentence/part of the sentence is emboldened. Five alternatives are given to the embolden part which will improve the sentence. Choose the correct alternative and choose the option corresponding to it. In case no improvement is needed, click the option corresponding to 'No improvement required'.

Businesses that ignore accessibility issues **relegates** people with disabilities to second-class status.

(a) issue relegate
(b) issue relegated
(c) issues a relegate
(d) issues relegate
(e) No improvement required

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Q15. Direction: A sentence/part of the sentence is emboldened. Five alternatives are given to the embolden part which will improve the sentence. Choose the correct alternative and choose the option corresponding to it. In case no improvement is needed, click the option corresponding to 'No improvement required'.

Having understood consumer behaviour is a crucial aspect of today's market, especially for effective marketing and branding of the products.

(a) Consumer understood
(b) Understanding consumer
(c) To understanding consumer
(d) Being undertood consumer
(e) No improvement required

Q16. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. that may lie in
B. the pros of turning
C. towards a more energy-efficient business model
D. the way
E. clearly outweigh the hurdles

(a) BCEAD
(b) EDCBA
(c) CDABE
(d) ABCDE
(e) BACDE

Q17. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. their processes
B. millions of rupees by
C. making smaller changes in
D. there are multiple cases where
E. businesses have saved

(a) BCADE
(b) CDBAE
(c) DEBCA
(d) ABCDE
(e) EDCBA

Q18. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. new record of
B. solar tariffs set a
C. Rs 2.36 per unit in
D. a 2000 MW auction
E. conducted by the Solar Energy Corporation of India

(a) BACDE
(b) ABCDE
(c) DABCE
(d) EDACB
(e) DCABE

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Q19. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. licensing auction

B. due to the impact

C. its second solar energy

D. Portugal has postponed

E. of the coronavirus pandemic

(a) EDCBA
(b) DCABE
(c) ABCDE
(d) BCDEA
(e) EDABC

Q20. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. wary of the threat of

B. wildfires after two major blazes

C. killed 106 people

D. three years ago

E. Portugal is deeply

(a) EABCD
(b) CDEAB
(c) DECAB
(d) ABCDE
(e) EDCBA

Q21. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any).

All the members of the PAGD (A)/ have expressed their disappointment, (B)/ especial at the absence of any (C)/ substantial confidence- building measures. (D)/ No Error (E)

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

Q22. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any).

It has often been set up with a mandate (A)/ to support and nurture entrepreneurs (B)/ and provide quality mentorship (C)/ to steer the entrepreneurial journeys (D)/. No Error (E)

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

Q23. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any).

Large contingents of farmers(A)/ has started arriving (B)/at protest sites in preparation (C)/for their agitation on Thursday.(D)/No error(E)

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

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(d) D
(e) E

Q24. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any).

Business are (A)/ always depends (B)/ on labor(C)/ and capital(D)/ No Error (E)

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

Q25. Read the sentence below to find out if there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error the answer is (5). (Ignore errors in punctuation if any).

Ramu earns(A)/ daily wages which(B)/ are the only(C)/ source of income (D)/ No error (E)

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

Directions

Below are given seven sentences out of which the sentence numbered 5 has been correctly placed and is fixed. The rest of the sentences A, B, C, D, E, F needs to be arranged correctly in order to form a logical order. Keep in mind that there are a total of seven sentences with the 5th sentence already given.

A. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres.

B. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017.

C. In the freight segment, IR runs more than 9,200 trains daily.

D. The average speed of freight trains is around 24 kilometres per hour.

5. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour.

E. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India.

F. Indian Railways (IR) is India's national railway system operated by the Ministry of Railways.

Q26. Which of the following is the FIRST statement?

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

Q27. Which of the following is the SECOND statement?

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

Q28. Which of the following is the THIRD statement?

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

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(e) B

Q29. Which of the following is the SIXTH statement?

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

Q30. Which of the following is the SEVENTH statement?

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

QUANTITATIVE APTITUDE

Q31. What approximate value should come in the place of question mark (?) in the following question?

719.99 ÷ 5.98 + 14.95 × 2^3 – 59.99 × 1.98 + √14399.99 = ?

(a) 120
(b) 240
(c) 360
(d) 0
(e) 60

Q32. What approximate value should come in the place of question mark (?) in the following question?

[(6.97^3 × 7.07^3) / (7.17^2 × 6.94)^3] × 6.97^8 = 7.13^?

(a) 4
(b) 3
(c) 1
(d) 5
(e) 6

Q33. What approximate value should come in the place of the question mark ‘?’ in the following question?

(424.14 – 224.34) + (672.86 – 242.85) = ? – (423.23 – 223.56)

(a) 770
(b) 810
(c) 790
(d) 850
(e) 830

Q34. What approximate value should come in the place of question mark (?) in the following question?

24.97% of 160.05 + 11.02% of 1099.97 = $?^2$ – 3.99% of 200.02

(a) 17
(b) 9
(c) 5
(d) 13
(e) 21

Q35. What approximate value should come in the place of the question mark '?' in the following question?

(67.98 + 32. 034) × (13.2 – 4.67) = ? + (10.98% of 99.06)

(a) 780
(b) 810

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(c) 800
(d) 750
(e) 789

Directions

Directions: Answer the questions based on the information given below.

Two companies 'S' and 'T' sold a total number of 3900 watches in the month of February, March, April, and May. The ratio of watches sold by company 'S' in February and March is 5 : 3. The total number of watches sold by company 'T' in all four months is 1700. The number of watches sold by company 'S' in April is 25% less than the number of watches sold by the same company in May. The total number of watches sold by companies 'S' and 'T' in February was 1200. The number of watches sold by company 'S' in March was 16.66% less than that by company 'T' in April. The total number of watches sold by company 'S' in February was 500. Watches sold by company 'T' in May is 340 more than that in March.

Q36. If the selling price of each watch sold by company 'S' in any of the given months is equal to 175 Rs. then find the total revenue generated by company 'S' by selling all the watches in all four months together?

(a) 185000 Rs.
(b) 285000 Rs.
(c) 385000 Rs.
(d) 485000 Rs.
(e) 585000 Rs.

Q37. Find the ratio of the number of watches sold by company 'S' in May to watches sold by company 'T' in February?

(a) 5 :7
(b) 6 : 7
(c) 8 : 7
(d) 9 : 7
(e) 10 : 7

Q38. The average number of watches sold in April, May, and June by company 'T' is 390. Find the number of watches sold in June by the same company?

(a) 320
(b) 330
(c) 340
(d) 350
(e) 360

Q39. Find the average number of watches sold in March and April by company 'S'?

(a) 300
(b) 450
(c) 600
(d) 750
(e) 900

Q40. Find the total number of watches sold by both 'S' and 'T' together in April month?

(a) 660
(b) 760
(c) 860
(d) 960
(e) 1060

Q41. The ratio of the area of a circle to the area of a square is 11 : 14 and the area of a rectangle is 147cm². If the length of a rectangle is equal to the side of the square and the ratio of the breadth and length of a rectangle is 3 : 4. Then, find the radius of a circle.

(a) 5 cm
(b) 7 cm

(c) 9 cm
(d) 4 cm
(e) 8 cm

Q42. The speed of train A is 60 kmph. It met with an accident to the train standing at the station. If the speed of the train A was 20 kmph lesser, then it would have taken 2 hours more to meet the accident. Find the distance covered by the train.

(a) 220 km
(b) 240 km
(c) 180 km
(d) 250 km
(e) 300 km

Q43. A and B can together finish a work in 30 days. They worked together for 20 days and then B left. After another 15 days, A finished the remaining work. In how many days A alone can finish the job?

(a) 45 days
(b) 30 days
(c) 40 days
(d) 35 days
(e) None of these

Q44. A mixture contains 60 litre of milk. x litre of solution is taken out and is replaced by water. This process is repeated two times. If the final quantity of milk is 48.6 litres, then find the value of x.

(a) 9 litres
(b) 8 litres
(c) 7 litres
(d) 6 litres
(e) None of these

Q45. The ratio of school ages of Nitin and Mayuri is 5 : 6. If the ratio between the one-third age of Nitin and half of Mayuri's age is 5 : 9. Then what is the school-age of Mayuri?

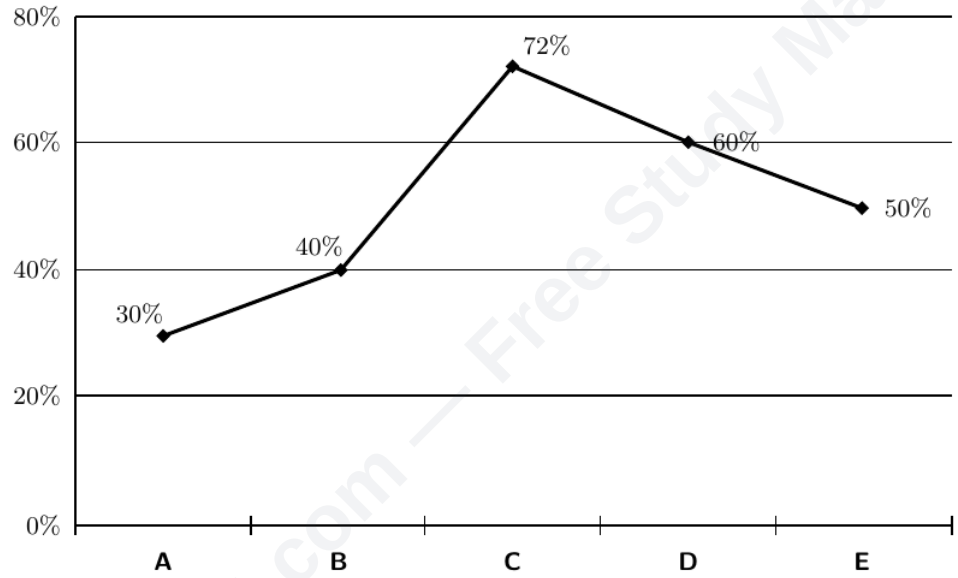
(a) 16 years
(b) 15 years
(c) 12 years
(d) Can't be determined
(e) None of the above

Directions

Directions: Answer the questions based on the information given below.

Person 'X' views some international and regional videos on 5 different websites. After watching videos, he downloads a few of them. The line graph given below shows the percentage of the total number of videos (international+regional) 'downloaded' (out of the total number of 'viewed' videos) from each particular website.

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The table given below shows the number of 'regional' videos downloaded from each particular website.

Website	Number of 'regional' videos downloaded
A	8
B	17
C	19
D	16
E	10

Q46. If the number of 'international' videos downloaded from each website 'A', 'B', and 'E' is equal and the total number of videos 'downloaded' from websites 'A', 'B', and 'E' together is equal to 335 then find the average number of 'international' videos downloaded from each of the given websites?

(a) 50
(b) 100
(c) 150
(d) 200
(e) 250

Q47. The number of 'regional' videos downloaded from another website 'F' is 6.25% more than that from website 'D' and the number of 'international' videos downloaded from website 'F' is 326 more than that of 'regional' videos. If the percentage of the total number of 'videos' downloaded from website 'F' is same as that of website 'A' and each 'viewed' video on website 'F' consumes 250MB then find the total data consumed by person 'X' if he views all the 'videos' of website 'F'? (1000MB = 1GB)

(a) 100GB
(b) 150GB
(c) 200GB
(d) 250GB
(e) 300GB

Q48. The difference between the total number of 'viewed' videos on website 'C' and the number of 'international' videos downloaded from the same website is 187 and the number of 'videos' stored in a hard disk is 75% of the total number of videos 'downloaded' from website 'C' then find the number of 'videos' from website 'C' which were stored in the hard disk?

(a) 320
(b) 324
(c) 328

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(d) 332
(e) 336

Q49. If the total number of 'international' videos downloaded from website 'B' and website 'D' is 153 and 164 respectively then find the ratio between the total number of 'viewed' videos on website 'B' and 'D' together and the total number of 'regional' videos downloaded from websites 'A', 'B', 'C' and 'D' together?

(a) 105 : 12
(b) 115 : 12
(c) 125 : 12
(d) 135 : 12
(e) 145 : 12

Q50. if the total number of videos downloaded from websites 'A' and 'E' together is equal to 250 and the total number of 'viewed' videos on website A is 150% more than that on website 'E', then find the total number of 'international' videos downloaded from website 'A' and 'E' together?

(a) 202
(b) 212
(c) 222
(d) 232
(e) 242

Q51. In the following number series, a wrong number is given. Find out the wrong number.

12, 13, 28, 88, 352, 1765

(a) 12
(b) 28
(c) 1765
(d) 88
(e) 352

Q52. Direction: In the following number series, a wrong number is given. Find out the wrong number.

16, 17, 38, 123, 510, 2565

(a) 17
(b) 2565
(c) 38
(d) 510
(e) 123

Q53. In each of the following number series, the wrong number is given, find out that number.

2, 4, 12, 48, 200, 1440

(a) 4
(b) 12
(c) 48
(d) 200
(e) 1440

Q54. In each of the following number series, the wrong number is given, find out that number.

11, 25, 63, 109, 221, 445

(a) 25
(b) 63
(c) 109
(d) 221
(e) 445

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Q55. In each of the following number series, the wrong number is given, find out that number.

119, 176, 260, 371, 509, 675

(a) 675
(b) 119
(c) 176
(d) 371
(e) 509

Q56. Aditya gives _____ to Sabir at simple interest with a condition that the rate of interest will increase by 2% per year. The Total interest after 3 years is Rs. 10,260 and the rate of interest for first year is 7%.

(a) Rs. 36,000
(b) Rs. 38,000
(c) Rs. 40,000
(d) Rs. 42,000
(e) Rs. 44,000

Q57. A man who can swim 48 m/min in still water swims 200 m against the current and 200 m with the current. If the difference between those two times is 10 minutes, find the speed of the current.

(a) 32 m/min
(b) 36 m/min
(c) 30 m/min
(d) 24 m/min
(e) None of these

Q58. Two persons Chotu and Bittu started a business in which Chotu invested Rs. 50000, Bittu invested Rs. 80000, after 4 months Chittu joined them with a certain amount. At the end of the year, a total profit of Rs. 40000 was recorded. Chittu's share in the profit was Rs. 15000, then find Chittu's investment in the business.

(a) Rs. 120000
(b) Rs. 116000
(c) Rs. 117000
(d) Rs. 100000
(e) Rs. 95000

Q59. Abhi bought a bike for Rs. 13200 and sells it at a loss of 18%. The selling price of the bike is equal to the cost price of his mobile. At what price should he sell his mobile to incur a profit of 50% on it?

(a) Rs. 12450
(b) Rs. 15640
(c) Rs. 15226
(d) Rs. 16236
(e) Rs. 16226

Q60. The average salary of the staff of a Tech company is Rs. 2000 per day. The average salary of the Tech Leads is Rs. 5500 and that of the freshers is Rs. 1200. If the number of Tech Leads is 16, then find the number of freshers in the company.

(a) 60
(b) 65
(c) 70
(d) 75
(e) None of the above

Directions

Directions: Answer the questions based on the information given below.

The table given below shows information about the number of 'male' and 'female' applicants who applied for three different types of driving license tests in an RTO office of city 'X'. It also shows the percentage of the total number of applicants (males + females) who passed the driving license test.

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License type	Number of male applicants who applied for test	Number of female applicants who applied for test	Percentage of the total number of applicants (males + females) who passed the test
Two wheelers	360	240	63%
Light Motor Vehicle (LMV)	245	205	54%
Heavy Motor Vehicle (HMV)	216	168	37.5%

Q61. Total number of 'male' applicants who passed all three driving license tests is 135 more than the total number of 'female' applicants who passed all three driving license tests. If 176 'male' applicants passed the 'LMV' driving license test, then what is the average number of 'male' applicants who passed the 'Two wheelers' and 'HMV' driving license tests?

(a) 127
(b) 137
(c) 147
(d) 157
(e) 167

Q62. What is the ratio between the total number of applicants who passed their 'HMV' driving license test to those who failed their 'LMV' driving test?

(a) 5 : 8
(b) 7 : 10
(c) 8 : 11
(d) 9 : 14
(e) 16 : 23

Q63. Each 'LMV' driving test includes three rounds i.e. a 'written' test, an 'interview', and a 'practical' driving test. Each applicant must pass all three rounds to obtain an 'LMV' driving license. The ratio of the number of 'male' to 'female' applicants who were rejected for 'LMV' driving test, is 5 : 4. If 60% of the total number of 'male' applicants who were rejected for 'LMV' driving license test due to failure in 'interview' and 'practical' round, then find the number of 'male' applicants who were rejected in 'LMV' driving test due to failure in 'Written' round?

(a) 27
(b) 32
(c) 46
(d) 52
(e) 68

Q64. Among those applicants who passed the 'Two-wheelers' driving test, the ratio between the number of 'male' to 'female' applicants is 9 : 5. Find the percentage of 'female' applicants who failed their 'Two-wheelers' driving test out of total applicant failed in 'Twowheelers' driving test ?

(a) 32.4%
(b) 37.5%
(c) 47.29%
(d) 56.5%
(e) 62.25%

Q65. 80% of the total number of applicants who failed their driving license test of 'HMV', again applied for 'HMV' driving license test. Among those applicants who applied again for 'HMV' driving license test, the ratio between the number of 'male' to 'female' applicants is 7 : 5. If only 35% of 'female' applicants passed the 'HMV' driving test in their second attempt then what is the number of 'female' applicants who failed in their second license attempt?

(a) 36
(b) 40
(c) 44
(d) 52

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(e) 57

REASONING ABILITY

Directions

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

Seven person Y, W, U, V, Z, X and T are sitting on the circular table. Some of them are facing the inside direction and some of them are facing the outside direction of the circle. Y is sitting second to the left of W. T is sitting fifth to the left of Y. T is facing in opposite direction as Y(if Y is facing the center T will face away from the center and if Y is facing away from the center T will be facing center). One person sits between Y and T. Z is sitting immediate left of T. Z is facing is the same direction as W. X is sitting Second to the right of Z. One person sits between U and V from left of V. Both the neighbour of Y face in opposite direction from Y (if Y is facing center both the neighbour of Y face away from center and vice versa). X faced away from the center.

Q66. Which of the following is odd one out?

(a) X
(b) T
(c) V
(d) U
(e) Y

Q67. Which of the following is correct regarding position of T with respect to W?

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

Q68. How many person are sitting in between U and V counting from left of U?

(a) one
(b) four
(c) three
(d) None
(e) five

Q69. Who is sitting immediate left of Y?

(a) X
(b) V
(c) W
(d) Z
(e) U

Q70. What is the position of Z with respect to Y?

(a) third to the right
(b) third to the left
(c) second to the right
(d) second to the left
(e) Cannot be determined

Directions

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

In a certain code,

'must respect old rules' is code for 'za la ka ga',

'we respect the elders' is code for 'za fa sa na,

'we must be elders' is code for ' na la da sa',

'be elders respect younger' is code for 'wa sa za da'.

Q71. What is the code for 'respect'?

(a) la
(b) za
(c) sa
(d) fa
(e) na

Q72. if code for 'respect must old' is 'za la ga' then what is the code for 'rules'?

(a) na
(b) da
(c) ka
(d) za
(e) ga

Q73. 'ga' code represent which word?

(a) be
(b) old
(c) respect
(d) rules
(e) either option II or IV

Q74. What is the possible code of "we must respect elders"?

(a) za na za sa
(b) na za sa wa
(c) la na za sa
(d) ga na za sa
(e) na za sa da

Q75. 'da' code represnt which word?

(a) be
(b) we
(c) respect
(d) must
(e) elders

Directions

Directions: Read the following comprehension and answer the following questions given below.

Five People A, B, C, D and E played some cricket matches 52, 39, 16, 75, 46 in five different months January, April, May, June, and August but not necessarily the same. The one who played 46 matches played in the month of having 30 days. Only one person played between the one who played 46 and D. E played the matches just before C. The one who played 75 matches played at last. Only one person played between C and D. The one who played 16 matches played just before the one who played 46 matches. A played before B. More than 2 People played between E and B.

Q76. Who played 52 matches?

(a) A
(b) B
(c) D
(d) C
(e) Either option I or III

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Q77. Who played least number of matches?

(a) A
(b) B
(c) C
(d) E
(e) Cannot determine

Q78. How many matches B played?

(a) 52
(b) 39
(c) 75
(d) 16
(e) 46

Q79. Who played the matches between A and B?

(a) D
(b) E
(c) C
(d) None
(e) Cannot determine

Q80. If A played 52 matches then what is the difference of D and E's matches?

(a) 23
(b) 30
(c) 29
(d) 36
(e) 6

Q81. If it’s possible to make a meaningful word from the 3rd, 5th, 6th, and 7th letters of the word 'MONSTER', then which will be the last letter of the word? Mark ‘X’ if no such word can be formed, ‘M’ if more than 1 such word can be formed.

(a) T
(b) R
(c) X
(d) E
(e) M

Directions

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

There are seven persons who have different designations in a company i.e., General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk. All the designations given are to be considered in a given order (as General manager is considered as Senior-most and Clerk are considered as the Junior-most post).

Four designations are there in between K’s and L’s designation. O is a Clerk or Probationary Officer. K is a senior to L. There is one designation between O and P where P is senior to O and junior to Q. N is junior to M, who is senior to Q. N is neither Assistant General Manager nor assistant manager.

Q82. Who is working on the post of assistant general manager?

(a) K
(b) M
(c) Q
(d) N
(e) P

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Q83. How many designation is between P and M?

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

Q84. Which of the following person work on assistant manager?

(a) M
(b) Q
(c) K
(d) P
(e) L

Q85. Which of the following statement is correct ?

I) O is working as a Clerk.
II) P is working as Manager.
III) K is not working as a General manager.

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

Q86. How many persons are senior to Q.

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

Q87. In the given word ‘SUBTITLE’ if the vowels are changed to the next letter and the consonants are changed to the previous letters as per the alphabetical series, and alphabets are arranged in alphabetical order from left to right then which letter would be 4^(th) to the right of 3^(rd) letter from the left end?

(a) R
(b) V
(c) S
(d) K
(e) F

Directions

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

A is married to B. C is only brother of A. D is Brother in law of B. K is father in law of D. K is the paternal grandfather of G. H is the sister of G. I is son in law of B. J is the mother of A. E is married to D.

Q88. If X is father in law of B then how X is related to G

(a) Grandmother
(b) Father
(c) Mother
(d) Grandfather
(e) Cannot be determined

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Q89. How is H related to A?

(a) Sister
(b) Daughter
(c) Son
(d) Mother
(e) Father

Q90. How is K related to H

(a) Mother
(b) Father
(c) Grandfather
(d) Grandmother
(e) Cannot be determined

Q91. How many such pairs of letters are there in the word ‘DISCHARGE’, each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet?

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

Directions

Directions: Read the following comprehension and answer the following questions given below.

Eight people A, B, C, D, K, L, M, and N are sitting in two parallel rows such as four of them are sitting in Row-1 facing North and Four are sitting in Row-2 facing South. Persons sitting in row 1 face persons sitting in row 2. All of them likes different colours Yellow, Green, Purple, Orange, Blue Black, Red and White but not necessarily the same. The one who likes Orange sits on one end of Row-1. C likes black and sits immediate to M, who is facing the one who likes Orange. The one who likes Purple sits immediately to the right of D, who likes Blue colour. One person is sitting between B and C. Immediate neighbour of B faces D. Only one person is sitting between D and A. The one who likes Green sits immediately to the left of the one who likes Yellow. K is an immediate neighbour of A. Only one person sitting between K and L, who doesn't like either White or Purple.

Q92. Which of the following pair sit on an end?

(a) B-K
(b) M-A
(c) A-D
(d) L-C
(e) N-C

Q93. Four of the five options are same in certain way find the odd one out?

(a) M
(b) A
(c) B
(d) L
(e) C

Q94. Who is sitting immediately to the right of the one who likes Purple?

(a) B
(b) M
(c) D
(d) A
(e) L

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Q95. How many people sitting between M and B?

(a) One
(b) Two
(c) None
(d) Cannot determine
(e) None of these

Q96. Who likes Green colour?

(a) A
(b) C
(c) N
(d) M
(e) L

Q97. If in the number '67843624' digits which is/are less than 5 subtracted by one and digits greater than 5 added by one then what is the value of the sum of non repeated digits?

(a) 10
(b) 12
(c) 17
(d) 23
(e) 20

Directions

Directions: Read the following information carefully and answer the question that follow:

There are six person A, B, C, D, E and F who have different rank in class test exam. Person A got last rank in class. E was not first in class test rank .B got more marks than C. but he did not get Second rank in class. E got more marks than only A. F was situated between D and B in class test ranking, and B score less than D. The Second highest person got 92 marks.

Q98. How many persons got more marks than B ?

(a) One
(b) Two
(c) Three
(d) Four
(e) Can't determined

Q99. D got which of the following possible marks ?

(a) 89
(b) 92
(c) 93
(d) 88
(e) Can't determined

Q100. What will be C rank in class.

(a) First
(b) Second
(c) Third
(d) Four
(e) Five

ANSWER KEY

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

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

SOLUTIONS

Q1. Answer: (d) Emancipation

The solution is in Hindi. Read it online.

Q2. Answer: (e) Mr. Graves.

The correct answer is 'Mr. Graves.'

Key Points

• The eleventh sentence of the second paragraph says "The postmaster, Mr. Graves, followed him, carrying a three-legged stool, and the stool was put in the center of the square and Mr. Summers set the black box down on it."

• From the above sentence, we can say that Mr. Graves is the postmaster in the passage.

Hence, the only possible answer is option 3.

Q3. Answer: (c) Only B

The correct answer is 'Only B.'

Key Points

• The third sentence of the second paragraph says "The women, wearing faded house dresses and sweaters, came shortly after their menfolk" and the fifth sentence of the first paragraph says "Bobby Martin had already stuffed his pockets full of stones, and the other boys soon followed his example, selecting the smoothest and roundest stones; Bobby and Harry Jones and Dickie Delacroix-- the villagers pronounced this name "Dellacroy"--eventually made a great pile of stones in one corner of the square and guarded it against the raids of the other boys".

• From the above sentence, we can say that statements A and C are incorrect according to the given passage.

• The first sentence of the first paragraph says "The morning of June 27th was clear and sunny, with the fresh warmth of a full-summer day; the flowers were blossoming profusely and the grass was richly green."

• From the above sentence, we can say that statement B is correct according to the given passage.

Hence, the only possible answer is option 3.

Q4. Answer: (a) A short period of time

The correct answer is 'A short period of time.'

Key Points

• Given Idiom: For a while means A short period of time.

• Example: I will be able to sit with you for a while, but I need to get home soon.

• From the given options, the first option is the most appropriate meaning of the given idiom*.*

Hence, the correct answer is option 1.

Mistake Points

• We may think from the phrase "For a while" that it is all about passing time in a leisurely manner.

Additional Information

• The origin of awhile can be traced to Middle Englishānehwīle, having originated before 1000 BCE. It is an adverb denoting the amount of time that is spent somewhere. When it is used as the object of the preposition it is separated into two words a while. However, it is becoming more common to write it as one word, He is staying for awhile.

Q5. Answer: (c) Restrained

The correct answer is 'Restrained.'

Key Points

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• The word 'Boisterous' means Noisy, energetic, and cheerful.
• Example: The boisterous welcome restored the princess's good spirits.
• Let's look at the meaning of the given options:-
• Exuberant - Full of energy, excitement, and cheerfulness.
• Example: He is energetic and exuberant.
• Frisky - Playful and full of energy.
• Example: The spring weather's making me feel quite frisky.
• Restrained - Not showing strong feelings.
• Example: With an effort, he restrained himself.
• Spirited - Full of energy, enthusiasm, and determination.
• Example: He was by nature a spirited little boy.
• Rambunctious - Uncontrollably exuberant; boisterous.
• Example: Their rambunctious son always got into trouble.

Hence, the only possible answer is option 3.

Additional Information

• The antonyms of the word 'Boisterous' are "Restrained, Quiet, Orderly".
• The synonyms of the word 'Boisterous' are "Exuberant, Spirited, Rambunctious".

Q6. Answer: (c) From

The correct answer is 'From.'

Key Points

• The given sentence is talking about the men who stood away from the pile of stones in the corner.
• Let us explore the given options:
• The preposition 'Inside' means Moving so as to end up within.
• The preposition 'After' means Following or behind somebody or something.
• The preposition 'From' is used For indicating separation or removal.
• The preposition 'Before' means In front of someone or something.
• The preposition 'On' means In a place or position.

Hence, the correct answer is option 3.

Complete Sentence: They stood together, away from the pile of stones in the corner, and their jokes were quiet and they smiled rather than laughed.

Q7. Answer: (b) Both A and B

The correct answer is 'Both A and B.'

Key Points

• The fifth sentence of the second paragraph says "Soon the women, standing by their husbands, began to call to their children, and the children came reluctantly, having to be called four or five times" and the ninth sentence of the second paragraph says "He was a round-faced, jovial man and he ran the coal business, and people were sorry for him because he had no children and his wife was a scold".
• From the above sentence, we can say that statements A and B are incorrect according to the given passage.
• The sixth sentence of the second paragraph says "Bobby Martin ducked under his mother's grasping hand and ran, laughing, back to the pile of stones."
• From the above sentence, we can say that statement C is correct according to the given passage.

Hence, the only possible answer is option 2.

Q8. Answer: (b) Mr. Summers.

The correct answer is 'Mr. Summers.'

Key Points

• The eighth sentence of the second paragraph says "The lottery was conducted--as were the square dances, the teen club, and the Halloween program--by Mr. Summers who had time and energy to devote to civic activities."
• From the above sentence, we can say that Mr. Summers is in charge of organizing and conducting the annual lottery.

Hence, the only possible answer is option 2.

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Q9. Answer: (d) About 300.

The correct answer is 'About 300.'

Key Points

• The second sentence of the first paragraph says "The people of the village began to gather in the square, between the post office and the bank, around ten o'clock; in some towns, there were so many people that the lottery took two days and had to be started on June 27th but in this village, where there were only about three hundred people, the whole lottery took less than two hours, so it could begin at ten o'clock in the morning and still be through in time to allow the villagers to get home for noon dinner."

• From the above sentence, we can say that according to the passage, about 300 people live in the village.

Hence, the only possible answer is option 4.

Q10. Answer: (c) Standing in a group talking about tractors and rain

The correct answer is 'Standing in a group talking about tractors and rain'.

Key Points

• The first sentence of the second paragraph says "Soon the men began to gather surveying their own children, speaking of planting and rain, tractors, and taxes."

• From the above sentence, we can say that according to the passage, the men are standing in a group talking about tractors and rain before it is time for the lottery to begin.

Hence, the only possible answer is option 3.

Q11. Answer: (c) Allowed

The correct answer is option 3 i.e. allowed

Explanation:

We have to choose a word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

• Permitted: officially allowed (someone) to do something.

• Suffocated: felt or caused to feel trapped and oppressed.

• Pacified: subdued the anger, agitation, or excitement of.

• Allowed: let (someone) have or do something.

• Forbidden: ordered (someone) not to do something.

Therefore, from the given options, the best alternative for the emboldened word is ‘allowed'.

Q12. Answer: (a) Broken

The correct answer is option 1 i.e. broken

Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

• Shattered: Broke or caused to break suddenly and violently into pieces.

• Broken: (Past participle of 'break') separated into pieces as a result of a blow, shock, or strain.

• Sealed: Fastened or closed securely.

• Repaired: Restored something to its original state.

• Sewed: Joined together by making stitches with a needle and thread.

Therefore, from the given options, the best alternative for the 'emboldened' word is ‘broken'.

Q13. Answer: (b) Towed

The correct answer is option 2 i.e. Towed.

Explanation:

We have to choose the word which is similar to the emboldened word and can replace it.

Let's take a look at the meaning and usage of all the words given in the question and options-

• Hauled: pulled or dragged with effort or force.

• Torn: Past tense and past participle of 'tear', which means 'to pull something apart into pieces'.

• Towed: (of a motor vehicle or boat) pull (another vehicle or boat) along with a rope, chain, or tow bar.

• Alienated: made (someone) feel isolated or estranged.

• Placed: put in a particular position.

Therefore, from the given options, the best alternative for the 'emboldened' word is 'towed'.

Q14. Answer: (d) issues relegate

The correct answer is issues relegate.

Key Points

• In the given sentence, the emboldened part issues relegates is grammatically incorrect.

• In the given sentence, the subject is 'businesses' and it must be followed by a plural verb. We have to replace the singular verb 'relegates' with the plural verb 'relegate'.

• So, issues relegate is the correct answer.

So, the correct sentence is, Businesses that ignore accessibility issues relegate people with disabilities to second-class status.

Additional Information

• The word relegate means to assign an inferior rank or position to.

• relegated is the past tense of the verb relegate.

Q15. Answer: (b) Understanding consumer

The correct answer is Understanding consumer.

Key Points

• In the given sentence, the emboldened part Having understood consumer is grammatically incorrect.

• In the given sentence, the participle Having understood has been used as a subject, which is incorrect. Also, the given sentence is in the simple present tense.

• The verb understand must be written as a gerund, in its -ing form because it is a verb that is functioning as a noun in this sentence.

• So, Understanding consumer is the correct answer.

So, the correct sentence is, Understanding consumer behaviour is a crucial aspect of today's market, especially for effective marketing and branding of the products.

Additional Information

• A gerund is the -ing form of a verb that functions the same as a noun.

• For example, Running is fun. In this sentence, running is the gerund. It acts just like a noun.

• understood is the past tense of the verb 'understand'.

Q16. Answer: (a) BCEAD

The correct answer is option 1 i.e. BCEAD.

Explanation

• First is B as it establishes the subject i.e. the pros of something. B is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.

• Next is C as it tells the pros of what is being talked about.

• E follows C as it further talks about the pros.

• A contextually follows E.

• Last is D as it tells where the hurdles might appear.

Correct sentence- The pros of turning towards a more energy-efficient business model clearly outweigh the hurdles that may lie in the way.

Q17. Answer: (c) DEBCA

The correct answer is option 3 i.e. DEBCA.

Explanation

• First is D as it establishes the subject i.e. multiple cases. D is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.

• Next is E as it states what the cases are related to.

• B follows E as it tells what businesses have saved.

• Next is C as it tells how they have saved millions.

• Last is A as it tells where the changes were made.

Correct sentence- There are multiple cases where businesses have saved millions of rupees by making smaller changes in their processes.

Q18. Answer: (a) BACDE

The correct answer is option 1 i.e. BACDE.

Explanation

• First is B as it establishes the subject i.e. solar tariffs. B is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.

• Next is A as it tells what was set.

• C follows A as it describes the record.

• Next is D as it tells where the record was set i.e. in a 2000 MW auction.

• Last is E as it tells who conducted the auction.

Correct sentence- Solar tariffs set a new record of Rs 2.36 per unit in a 2000 MW auction conducted by the Solar Energy Corporation of India.

Q19. Answer: (b) DCABE

The correct answer is option 2 i.e. DCABE.

Explanation

• First is D as it establishes the subject i.e. Portugal. D is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.

• Next is C as it tells what was postponed.

• A follows C as it is in continuation with C.

• Next is B as it tells the reason for postponing.

• Last is E as it contextually follows B.

Correct sentence- Portugal has postponed its second solar energy licensing auction due to the impact of the coronavirus pandemic.

Q20. Answer: (a) EABCD

The correct answer is option 1 i.e. EABCD.

Explanation

• First is E as it establishes the subject i.e. Portugal. E is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence.

• Next is A as it tells the attitude of the country.

• B follows A as it tells what threat the country is facing.

• Next is C as it tells the consequence of two major blazes in Portugal.

• Last is D as it tells when the people were killed due to these blazes.

Correct sentence - Portugal is deeply wary of the threat of wildfires after two major blazes killed 106 people three years ago.

Q21. Answer: (c) C

The correct answer is option 3.

Key Points

• The error in part C of a sentence, error is in usage 'especial'

• Here, we need to use the adverb form of 'especial'

• Hence we need to replace 'especial' with 'especially'

Correct answer - All the members of the PAGD have expressed their disappointment, especially at the absence of any substantial confidence- building measures.

Additional Information

• Adverbs usually end with 'ly'.

• If any additional information is given regarding verbs then it is considered as an adverb.

• In the given sentence the adverb especially Describes the verb absence.

Q22. Answer: (a) A

The correct answer is option 1.

Key Points

• The error in part A of a sentence, the error is in the usage of often

• adverb used in the sentence is incorrect, the correct adverb will 'also'

• The auxiliaries ‘have to’ and ‘used to prefer the adverb before often.

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• hence we need to replace 'often' with 'also'.

Correct answer - It has also been set up with a mandate to support and nurture entrepreneurs and provide quality mentorship to steer the entrepreneurial journeys.

Additional Information

• If any additional information is given regarding verbs then it is considered as an adverb.

• Adverb often is used when certain thing is happened on different occasions.

• while adverb also is used to give additional information of something which we have already said.

Q23. Answer: (b) B

The correct answer is option 2.

• The error is in Part B of the sentence. in the use of has

• In the sentence, it is given that large contingents. hence there is more than one contingent.

• Hence, has should be replaced with have.

Correct sentence -Large contingents of farmers have started arriving at protest sites in preparation for their agitation on Thursday.

• The noun is Part of the sentence which defines persons, Place or things.

• Helping verbs in the sentence is decided with the help of a noun or subject.

Q24. Answer: (a) A

The correct answer is option 1.

• The error is in part A of the sentence Some nouns are always singular.

• These are uncountable nouns. Articles A/An are not used with these nouns.

• These nouns are Machinery, work, traffic, business, etc.

Correct sentence - Business always depends on labor and capital.

• The Noun is Part of the sentence which defines persons, Place or things.

• Helping verbs in the sentence is decided with the help of a noun or subject.

• Some material nouns are silver, gold, metal, cotton, etc.

Q25. Answer: (e) E

The correct answer is option 5.

• There is no error in the question

• Some nouns are always in the plural form they don’t have a singular form. A plural verb is used with them.

• These nouns are: Cattle, Alms, Police, Amends, wages

• In the given sentence the verb is already in plural form i.e. 'are' ; thus the given sentence is correct and therefore option 5th is the answer.

• The Noun is Part of the sentence which defines persons, Place or things.

• Helping verbs in the sentence is decided with the help of a noun or subject.

• Some nouns are always used in the plural form

• Eg. Goggles, Belongings, Breeches, Braces, Binoculars, Dregs, Entrails, Embers, etc

Q26. Answer: (a) F

The correct answer is F

Key Points

• F - presents an independent piece of factual information

• A - tells something more about Indian Railways that was introduced in F

• B - adds to the superlative 'the -est' once mentioned in A

• E - introduces passenger train statistics

• 5 - tells about the most common type of passenger trains

• C - introduces the freight segment and tells its numbers

• D - tells about the average speed of each freight train

Thus the correct order is: FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR

runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

Q27. Answer: (d) A

The correct answer is A

Key Points

• F - presents an independent piece of factual information

• A - tells something more about Indian Railways that was introduced in F

• B - adds to the superlative 'the -est' once mentioned in A

• E - introduces passenger train statistics

• 5 - tells about the most common type of passenger trains

• C - introduces the freight segment and tells its numbers

• D - tells about the average speed of each freight train

Thus the correct order is: FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

Q28. Answer: (e) B

The correct answer is B

Key Points

• F - presents an independent piece of factual information

• A - tells something more about Indian Railways that was introduced in F

• B - adds to the superlative 'the -est' once mentioned in A

• E - introduces passenger train statistics

• 5 - tells about the most common type of passenger trains

• C - introduces the freight segment and tells its numbers

• D - tells about the average speed of each freight train

Thus the correct order is: FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

Q29. Answer: (a) C

The correct answer is C

Key Points

• F - presents an independent piece of factual information

• A - tells something more about Indian Railways that was introduced in F

• B - adds to the superlative 'the -est' once mentioned in A

• E - introduces passenger train statistics

• 5 - tells about the most common type of passenger trains

• C - introduces the freight segment and tells its numbers

• D - tells about the average speed of each freight train

Thus the correct order is: FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

Q30. Answer: (b) D

The correct answer is D

Key Points

• F - presents an independent piece of factual information
• A - tells something more about Indian Railways that was introduced in F
• B - adds to the superlative 'the -est' once mentioned in A
• E - introduces passenger train statistics
• 5 - tells about the most common type of passenger trains
• C - introduces the freight segment and tells its numbers
• D - tells about the average speed of each freight train

Thus the correct order is: FABE5CD: Indian Railways (IR) is India's national railway system operated by the Ministry of Railways. It manages the fourth largest railway network in the world by size, with a route length of 67,368 kilometres and total track length of 121,407 kilometres. It is also the world's eighth-largest employer with 1.308 million employees as of March 2017. Indian Railway (IR) runs more than 20,000 passenger trains daily, on both long-distance and suburban routes, from 7,349 stations across India. Mail or express trains, the most common types, run at an average speed of 50.6 kilometres per hour. In the freight segment, IR runs more than 9,200 trains daily. The average speed of freight trains is around 24 kilometres per hour.

Q31. Answer: (b) 240

Follow BODMAS rule to solve this question, as per the order given below.

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and following BODMAS rule in the bracket -

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next.

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated.

Step - 4: Last but not the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$719.99 \div 5.98 + 14.95 \times 2^3 - 59.99 \times 1.98 + \sqrt{14399.99} = ?$

$\Rightarrow 720 \div 6 + 15 \times 23 - 60 \times 2 + \sqrt{14400} = ?$

$\Rightarrow 120 + 120 - 120 + \sqrt{14400} = ?$

$\Rightarrow 120 + 120 - 120 + 120 = ?$

Therefore ? = 240

Q32. Answer: (d) 5

Calculation:

We have,

$[(6.973 \times 7.073) / (7.172 \times 6.94)3] \times 6.978 = 7.13?$

$\Rightarrow [7^3 \times 7^3 / (7^2 \times 7)^3] \times 7^8 = 7^?$

$\Rightarrow [76 / (73)3] \times 78 = 7?$

$\Rightarrow [76 / 7^9] \times 78 = 7?$

$\Rightarrow 7^6 / 7^9 \times 78 = 7?$

$\Rightarrow 76 + 8 - 9 = 7?$

$\Rightarrow 7^5 = 7?$

$\Rightarrow 5 = ?$

$\Rightarrow ? = 5$

Therefore The correct answer is option (4).

Q33. Answer: (e) 830

Follow the BODMAS rule to solve this question, as per the order given below.

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and following BODMAS rule in the bracket -

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next.

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated.

Step - 4: Last but not the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

$(424.14 - 224.34) + (672.86 - 242.85) = ? - (423.23 - 223.56)$

$\Rightarrow 200 + 430 = ? - 200$

$\Rightarrow 630 = ? - 200$

$\Rightarrow 200 + 630 = ?$

Therefore ? = 830

Q34. Answer: (d) 13

Follow BODMAS rule to solve this question, as per the order given below.

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and following BODMAS rule in the bracket -

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next.

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated.

Step - 4: Last but not the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

24.97% of 160.05 + 11.02% of 1099.97 = ?² – 3.99% of 200.02

=> 25% of 160 + 11% of 1100 = ?² – 4% of 200

=> 40 + 121 = ?² - 8

=> 169 = ?²

Therefore ? = 13

Q35. Answer: (e) 789

Follow BODMAS rule to solve this question, as per the order given below.

Step - 1: Parts of an equation enclosed in Brackets must be solved first, and following BODMAS rule in the bracket -

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next.

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated.

Step - 4: Last but not the least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since we need to find out the approximate value, we can write these values to their nearest integers.

Given expression is

(67.98 + 32. 034) × (13.2 – 4.67) = ? + (10.98% of 99.06)

=> (68 + 32) × (13 – 5) = ? + (11% of 100)

=> 100 × 8 = ? + 11

=> 800 – 11 =?

Therefore ? = 789

Q36. Answer: (c) 385000 Rs.

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = 1200 - 500 = 700

Total number of watches sold by company 'S' in March = (3/5) × 500 = 300

Total number of watches sold by company 'T' in April = (6/5) × 300 = 360

Let the total number of watches sold by company 'S' in May = 4x

Total number of watches sold by company 'S' in April = 75% × 4x = 3x

The total number of watches sold by company 'S' in all four months = 3900 - 1700 = 2200

ATQ, 500 + 300 + 3x + 4x = 2200

=> 7x = 1400

=> x = 200

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = y + 340

The total number of watches sold by company 'T' in all four months = 1700

Therefore, 700 + y + 360 + y + 340 = 1700

=> 2y = 300

=> y = 150

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	500 + 700 = 1200
March	300	150	300 + 150 = 450
April	600	360	600 + 360 = 960
May	800	490	800 + 490 = 1290
Total	2200	1700	3900

Total revenue generated by company 'S' by selling all the watches in all four months together = 2200 × 175 = 385000 Rs.

Hence, the correct answer is 385000 Rs.

Q37. Answer: (c) 8 : 7

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = 1200 - 500 = 700

Total number of watches sold by company 'S' in March = (3/5) × 500 = 300

Total number of watches sold by company 'T' in April = (6/5) × 300 = 360

Let the total number of watches sold by company 'S' in May = 4x

Total number of watches sold by company 'S' in April = 75% × 4x = 3x

The total number of watches sold by company 'S' in all four months = 3900 - 1700 = 2200

ATQ, 500 + 300 + 3x + 4x = 2200

=> 7x = 1400

=> x = 200

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = y + 340

The total number of watches sold by company 'T' in all four months = 1700

Therefore, 700 + y + 360 + y + 340 = 1700

=> 2y = 300

=> y = 150

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	500 + 700 = 1200
March	300	150	300 + 150 = 450
April	600	360	600 + 360 = 960
May	800	490	800 + 490 = 1290
Total	2200	1700	3900

Required ratio = 800 : 700 = 8 : 7

Hence, the correct answer is 8 : 7.

Q38. Answer: (a) 320

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = 1200 - 500 = 700

Total number of watches sold by company 'S' in March = (3/5) × 500 = 300

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Total number of watches sold by company 'T' in April = (6/5) × 300 = 360
Let the total number of watches sold by company 'S' in May = 4x
Total number of watches sold by company 'S' in April = 75% × 4x = 3x
The total number of watches sold by company 'S' in all four months = 3900 - 1700 = 2200
ATQ, 500 + 300 + 3x + 4x = 2200
=> 7x = 1400
=> x = 200
Total number of watches sold by company 'S' in May = 800
Total number of watches sold by company 'S' in April = 600
Let the total number of watches sold by company 'T' in March = y
Total number of watches sold by company 'T' in May = y + 340
The total number of watches sold by company 'T' in all four months = 1700
Therefore, 700 + y + 360 + y + 340 = 1700
=> 2y = 300
=> y = 150
Total number of watches sold by company 'T' in March = 150
Total number of watches sold by company 'T' in May = 490
Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	500 + 700 = 1200
March	300	150	300 + 150 = 450
April	600	360	600 + 360 = 960
May	800	490	800 + 490 = 1290
Total	2200	1700	3900

Total number of watches sold in April, May, and June by company 'T' = 390 × 3 = 1170
Number of watches sold in June by company 'T' = 1170 - (360 + 490) = 320
Hence, the correct answer is 320.

Q39. Answer: (b) 450

Total number of watches sold by company 'S' in February = 500
Total number of watches sold by company 'T' in February = 1200 - 500 = 700
Total number of watches sold by company 'S' in March = (3/5) × 500 = 300
Total number of watches sold by company 'T' in April = (6/5) × 300 = 360
Let the total number of watches sold by company 'S' in May = 4x
Total number of watches sold by company 'S' in April = 75% × 4x = 3x
The total number of watches sold by company 'S' in all four months = 3900 - 1700 = 2200
ATQ, 500 + 300 + 3x + 4x = 2200
=> 7x = 1400
=> x = 200
Total number of watches sold by company 'S' in May = 800
Total number of watches sold by company 'S' in April = 600
Let the total number of watches sold by company 'T' in March = y
Total number of watches sold by company 'T' in May = y + 340
The total number of watches sold by company 'T' in all four months = 1700
Therefore, 700 + y + 360 + y + 340 = 1700
=> 2y = 300
=> y = 150
Total number of watches sold by company 'T' in March = 150
Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	500 + 700 = 1200
March	300	150	300 + 150 = 450
April	600	360	600 + 360 = 960
May	800	490	800 + 490 = 1290
Total	2200	1700	3900

The average number of watches sold in March and April by company 'S' = (300 + 600)/2 = 450

Hence, the correct answer is 450.

Q40. Answer: (d) 960

Total number of watches sold by company 'S' in February = 500

Total number of watches sold by company 'T' in February = 1200 - 500 = 700

Total number of watches sold by company 'S' in March = (3/5) × 500 = 300

Total number of watches sold by company 'T' in April = (6/5) × 300 = 360

Let the total number of watches sold by company 'S' in May = 4x

Total number of watches sold by company 'S' in April = 75% × 4x = 3x

The total number of watches sold by company 'S' in all four months = 3900 - 1700 = 2200

ATQ, 500 + 300 + 3x + 4x = 2200

=> 7x = 1400

=> x = 200

Total number of watches sold by company 'S' in May = 800

Total number of watches sold by company 'S' in April = 600

Let the total number of watches sold by company 'T' in March = y

Total number of watches sold by company 'T' in May = y + 340

The total number of watches sold by company 'T' in all four months = 1700

Therefore, 700 + y + 360 + y + 340 = 1700

=> 2y = 300

=> y = 150

Total number of watches sold by company 'T' in March = 150

Total number of watches sold by company 'T' in May = 490

Putting all the values in a table we get

Month	Watches sold by company 'S'	Watches sold by company 'T'	Total Watches sold by company S + T
Feb	500	700	500 + 700 = 1200
March	300	150	300 + 150 = 450
April	600	360	600 + 360 = 960
May	800	490	800 + 490 = 1290
Total	2200	1700	3900

Total number of watches sold by both 'S' and 'T' together in April month = 960

Hence, the correct answer is 960.

Q41. Answer: (b) 7 cm

Shortcut Trick

Rectangle breadth : length = 3 : 4. Area = 3x × 4x = 12x² = 147.

=> x² = 12.25 => x = 3.5. Length (Side of square) = 4 × 3.5 = 14 cm.

Area of square = 14² = 196 cm².

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Area of circle = (11/14) × 196 = 154 cm².
Since πr² = 154 and for r = 7, πr² is always 154, the radius is 7 cm.
Therefore The correct answer is 7 cm.
Alternate Method
Given: Ratio of breadth to length of rectangle = 3 : 4, Area of rectangle = 147 cm², Side of square = Length of rectangle.
=> Let breadth (b) = 3x and length (l) = 4x.
=> Area = l × b = 4x × 3x = 12x² = 147
=> x² = 147 ÷ 12 = 12.25 => x = 3.5
=> Length of rectangle (l) = 4 × 3.5 = 14 cm.
=> Side of square (s) = 14 cm. Area of square = s² = 14 × 14 = 196 cm².
=> Area of circle : Area of square = 11 : 14
=> Area of circle = (11 ÷ 14) × 196 = 11 × 14 = 154 cm².
=> πr² = 154 => (22 ÷ 7) × r² = 154
=> r² = (154 × 7) ÷ 22 = 7 × 7 = 49
=> r = √49 = 7 cm.
Therefore The correct answer is 7 cm.
Additional Information
Circle Mensuration
Area of circle = πr² and Circumference = 2πr. For r = 7, Area is always 154 and Circumference is 44.
Square and Rectangle
Area of Square = side². Area of Rectangle = length × breadth.
Common Ratios
If the side of a square is 2r, the ratio of the area of the inscribed circle to the square is π : 4 ≈ 11 : 14.

Q42. Answer: (b) 240 km

Shortcut Trick
Ratio of Speed (S1 : S2) = 60 : (60 − 20) = 60 : 40 = 3 : 2.
Since Distance is constant, Time Ratio is inverse of Speed Ratio = 2 : 3.
Difference in time ratio parts = 3 − 2 = 1 unit → 2 hours.
Original time (2 units) = 2 × 2 = 4 hours.
Distance = Original Speed × Original Time = 60 kmph × 4 hours = 240 km.
Therefore The correct answer is 240 km.
Alternate Method
Given:
Initial speed (S1) = 60 kmph
Reduced speed (S2) = 60 − 20 = 40 kmph
Time difference (Δt) = 2 hours
Formula Used:
Distance (D) = [S1 × S2 ÷ (S1 − S2)] × Δt
Calculations:
=> D = [60 × 40 ÷ (60 − 40)] × 2
=> D = [2400 ÷ 20] × 2
=> D = 120 × 2
=> D = 240 km
Therefore The correct answer is 240 km.
Additional Information
Inversely Proportional Relation
When distance is constant, speed is inversely proportional to time (S prop. to 1/T). This means S1/S2 = T2/T1.
Average Speed
If a certain distance is covered at speed 'a' and the same distance at speed 'b', the average speed is (2 × a × b) ÷ (a + b).
Relative Speed
When two objects move in the same direction, relative speed = S1 − S2. When they move in opposite directions, relative speed =

S1 + S2.

Q43. Answer: (a) 45 days

Shortcut Trick

Work done by A and B in 20 days = 20 ÷ 30 = 2/3 part.

Remaining work = 1 − 2/3 = 1/3 part.

A finishes 1/3 part in 15 days.

A alone can finish full work in = 15 × 3 = 45 days.

Therefore The correct answer is 45 days.

Alternate Method

Person	Days	Total Work	Efficiency
A + B	30	30 units	30 ÷ 30 = 1

=> Total Work = 30 units (assumed LCM based on given combined days).

=> Combined efficiency of (A + B) = 1 unit/day.

=> Work done by (A + B) in 20 days = 1 × 20 = 20 units.

=> Remaining Work = 30 − 20 = 10 units.

=> Efficiency of A = Remaining Work ÷ Days taken = 10 ÷ 15 = 2/3 unit/day.

=> Time taken by A alone = Total Work ÷ Efficiency of A = 30 ÷ (2/3) = 30 × (3/2).

=> Time taken by A = 45 days.

Therefore The correct answer is 45 days.

Additional Information

Efficiency and Time Relationship

Efficiency is inversely proportional to time. If efficiency ratio is x:y, then time ratio is y:x for the same work.

Work Equation

Total Work = Efficiency × Time. This core formula allows finding any unknown when two variables are known.

Man-Days Concept

M1D1 = M2D2 can be used when the same group of people works with constant efficiency.

Q44. Answer: (d) 6 litres

Shortcut Trick

Ratio of final quantity to initial quantity of milk = $(1 - x/60)^n$

$48.6 \div 60 = (1 - x/60)^2$

$0.81 = (1 - x/60)^2 \Rightarrow \sqrt{0.81} = 1 - x/60$

$0.9 = 1 - x/60 \Rightarrow x/60 = 0.1$

x = 6 litres

Therefore The correct answer is 6 litres.

Alternate Method

Given:

Initial quantity (C) = 60 litres

Final quantity (F) = 48.6 litres

Number of operations (n) = 2

Formula Used:

$F = C \times (1 - x/C)^n$

Calculations:

$\Rightarrow 48.6 = 60 \times (1 - x/60)^2$

$\Rightarrow 48.6 \div 60 = (1 - x/60)^2$

$\Rightarrow 486 \div 600 = (1 - x/60)^2$

$\Rightarrow 81 \div 100 = (1 - x/60)^2$

$\Rightarrow \sqrt{(81/100)} = 1 - x/60$

$\Rightarrow 9/10 = 1 - x/60$

$\Rightarrow x/60 = 1 - 0.9 = 0.1$

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=> x = 60 × 0.1 = 6 litres

Therefore The correct answer is 6 litres.

Additional Information

Removal and Replacement Formula

The formula for final quantity is $F = C(1 - x/C)^n$ where C is initial capacity, x is quantity replaced, and n is iterations.

Ratio Method

If 1/k portion is removed, the remaining milk ratio after n times is $(1 - 1/k)^n$. For n=2, if the ratio is 81/100, the single step ratio is 9/10.

Successive Percentage Change

This process is an application of successive percentage decrease where the value decreases by (x/C × 100)% each time.

Q45. Answer: (d) Can't be determined

Shortcut Trick

Given ratio of Nitin and Mayuri ages = 5 : 6.

Checking the second condition: (1/3 × 5x) : (1/2 × 6x) = (5x/3) : 3x = 5 : 9.

Since the second condition is derived directly from the first ratio, the equations are dependent.

We have two variables but only one independent equation.

Therefore The correct answer is Can't be determined.

Alternate Method

Given: Ratio of ages of Nitin (N) and Mayuri (M) = 5 : 6

=> Let N = 5x and M = 6x

Condition: (1/3 × N) : (1/2 × M) = 5 : 9

=> (5x/3) / (6x/2) = 5 / 9

=> (5x/3) / 3x = 5 / 9

=> 5x / 9x = 5 / 9

=> 5/9 = 5/9

The variable x cancels out, meaning no specific value for x can be found.

Therefore The correct answer is Can't be determined.

Additional Information

Consistency of Equations

To solve for n variables, we require n independent linear equations. If equations are dependent, infinite solutions exist.

Ratio and Proportion

A ratio alone does not provide absolute values unless at least one absolute quantity or a sum/difference is provided.

Q46. Answer: (b) 100

Let the number of 'international' videos downloaded from each website 'A', 'B', and 'E' = x

Total number of 'regional' videos download from websites 'A', 'B', and 'E' together = 8 + 17 + 10 = 35

Total number of 'international' videos download from websites 'A', 'B', and 'E' together = 3x

Total number of videos 'downloaded' from websites 'A', 'B', and 'E' together = 335

Therefore, 35 + 3x = 335

=> 3x = 300

=> x = 100

The average number of 'international' videos downloaded from each of the given websites = x = 100

Hence, the correct answer is 100.

Q47. Answer: (e) 300GB

Number of 'regional' videos downloaded from website 'F' = (17/16) × 16 = 17

Number of 'international' videos downloaded from website 'F' = 17 + 326 = 343

Let the total number of 'viewed' videos on website 'F' = 100x

Total number of 'videos' downloaded from the website 'F' = 30% × 100x = 30x

ATQ, 30x = 17 + 343

=> 100x = 1200

The total number of 'viewed' videos on website 'F' = 1200

Total data consumed by person 'X' if he views all the 'videos' of website 'F = 1200 × 250 = 300000 MB = 300 GB

Hence, the correct answer is 300 GB.

Q48. Answer: (b) 324

Let the total number of 'viewed' videos on website 'C' = 100x

Total number of 'downloaded' videos from website 'C' = 72% × 100x = 72x

Difference between the total number of 'viewed' videos on website 'C' and the number of 'international' videos downloaded from the same website is 187.

Therefore, the number of 'international' videos downloaded from website 'C' = 100x - 187

Number of 'regional' videos downloaded from website 'C' = 72x - (100x -187) = 187 - 28x

ATQ, 187 - 28x = 19

=> x = 6

Total number of 'downloaded' videos from website 'C' = 72x = 432

Number of 'videos' from website 'C' which were stored in the hard disk = 432 × 75% = 324

Hence, the correct answer is 324.

Q49. Answer: (e) 145 : 12

Total number of 'international' videos downloaded from website 'B' = 153

Total number of 'videos' downloaded from website 'B' = 153 + 17 = 170

Let the total number of 'viewed' videos on website 'B' = 100x

ATQ, 40x = 170

=> 100x = 425

Total number of 'viewed' videos on website 'B' = 425

Similarly, total number of 'videos' downloaded from website 'D' = 164 + 16 = 180

Let the total number of 'viewed' videos on website 'D' = 100y

ATQ, 60y = 180

=> 100y = 300

Total number of 'viewed' videos on website 'D' = 300

Total number of 'viewed' videos on website 'B' and 'D' together = 425 + 300 = 725

Total number of 'regional' videos downloaded from websites 'A', 'B', 'C' and 'D' together = 8 + 17 + 19 + 16 = 60

Required ratio = 725 : 60 = 145 : 12

Hence, the correct answer is 145 : 12.

Q50. Answer: (d) 232

Let the total number of 'viewed' videos on the website 'E' = 100x

Total number of 'viewed' videos on website 'A' = 250% × 100x = 250x

Total number of downloaded videos from website 'E' = 50% × 100x = 50x

Total number of downloaded videos from website 'A' = 250x × 30% = 75x

Total number of videos downloaded from websites 'A' and 'E' together = 250

ATQ, 50x + 75x = 250

=> x = 2

Total number of 'international' videos downloaded from website 'E' = 50x - 10 = 90

Total number of 'international' videos downloaded from website 'A' = 75x - 8 = 142

Total number of 'international' videos downloaded from websites 'A' and 'E' together = 90 + 142 = 232

Hence, the correct answer is 232.

Q51. Answer: (d) 88

Considering the given series

12, 13, 28, 88, 352, 1765

The logic of the given series can be explained as

12 × 1 + 1 = 13

13 × 2 + 2 = 28

28 × 3 + 3 = 87

87 × 4 + 4= 352

352 × 5 + 5 = 1765

Therefore The wrong term in the given number series is 88.

Q52. Answer: (d) 510

16 × 1 + 1^2 = 17

17 × 2 + 2^2 = 38

38 × 3 + 3^2 = 123

123 × 4 + 4^2 = 508

508 × 5 + 5^2 = 2565

Therefore Wrong term in given number series is 510.

Q53. Answer: (d) 200

Calculation:

The given number series follows this pattern:

2 × 1 = 2

2 × 2 = 4

4 × 3 = 12

12 × 4 = 48

48 × 5 = 240

240 × 6 = 1440

Therefore The wrong number in the given series is 200.

Q54. Answer: (b) 63

The series follows the following pattern:

11

11 + 14 = 25

25 + 28 = 53 ≠ 63

53 + 56 = 109

109 + 112 = 221

221 + 224 = 445

Therefore The wrong number is 63

11, 25, 53, 109, 221, 445

14, 28, 56, 112, 224

× 2 × 2 × 2 × 2

Q55. Answer: (a) 675

Therefore The wrong number is 675

Q56. Answer: (b) Rs. 38,000

Shortcut Trick

Cumulative rate for 3 years = 7% + (7+2)% + (9+2)% = 7% + 9% + 11% = 27%

Total interest = 27% of Principal = Rs. 10,260

1% of Principal = 10,260 ÷ 27 = Rs. 380

Principal (100%) = 380 × 100 = Rs. 38,000

Therefore The correct answer is Rs. 38,000.

Alternate Method

Given:

Rate for 1st year (R1) = 7%

Rate for 2nd year (R2) = 7 + 2 = 9%

Rate for 3rd year (R3) = 9 + 2 = 11%

Total Simple Interest (SI) = Rs. 10,260

Formula Used:

Total SI = P × (R1 + R2 + R3) ÷ 100

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Calculations:

=> 10,260 = P × (7 + 9 + 11) ÷ 100

=> 10,260 = P × (27 ÷ 100)

=> P = (10,260 × 100) ÷ 27

=> P = 380 × 100

=> P = 38,000

Therefore The correct answer is Rs. 38,000.

Additional Information

Variable Simple Interest

When interest rates change annually, total SI is calculated by summing individual interests: SI = (P×R1×T1)/100 + (P×R2×T2)/100 + ...

Effective Rate of Simple Interest

The overall percentage interest is simply the arithmetic sum of rates if the principal remains constant over equal time periods.

Simple Interest vs Amount

Amount (A) = Principal (P) + Simple Interest (SI). In SI, interest is only calculated on the initial principal every period.

Q57. Answer: (a) 32 m/min

Shortcut Trick

Let current speed be v. Difference in time = [Distance ÷ (u − v)] − [Distance ÷ (u + v)] = 10.

200 ÷ (48 − v) − 200 ÷ (48 + v) = 10 => 20 ÷ (48 − v) − 20 ÷ (48 + v) = 1.

By Option Verification, if v = 32:

20 ÷ (48 − 32) − 20 ÷ (48 + 32) = 20 ÷ 16 − 20 ÷ 80 = 1.25 − 0.25 = 1. (Satisfied)

Therefore The correct answer is 32 m/min.

Alternate Method

Given: Speed of man (u) = 48 m/min, Distance (D) = 200 m, Time difference (Δt) = 10 min.

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

=> 200 ÷ (48 − v) − 200 ÷ (48 + v) = 10

=> 200 × [(48 + v − (48 − v)) ÷ (48² − v²)] = 10

=> 20 × [2v ÷ (2304 − v²)] = 1

=> 40v = 2304 − v²

=> v² + 40v − 2304 = 0

=> v² + 72v − 32v − 2304 = 0

=> v(v + 72) − 32(v + 72) = 0

=> (v − 32)(v + 72) = 0

=> v = 32 m/min (Speed cannot be negative)

Therefore The correct answer is 32 m/min.

Additional Information

Relative Speed in Water

Downstream Speed = Speed of boat in still water + Speed of stream. Upstream Speed = Speed of boat in still water − Speed of stream.

Average Speed for Round Trip

Average speed = (u² − v²) ÷ u, where u is boat speed and v is stream speed.

Still Water Speed Calculation

Speed in still water = (Downstream speed + Upstream speed) ÷ 2.

Q58. Answer: (c) Rs. 117000

Shortcut Trick

Total profit = 40000, Chittu's share = 15000 => Combined share of Chotu and Bittu = 25000.

Profit ratio (Chotu+Bittu : Chittu) = 25000 : 15000 = 5 : 3.

Investment × Time ratio: (50000×12 + 80000×12) : (X×8) = 5 : 3.

130000 × 12 : 8X = 5 : 3.

1560000 ÷ 8X = 5 ÷ 3 => 40X = 4680000 => X = 117000.

Therefore The correct answer is Rs. 117000.

Alternate Method

Given: Chotu's investment = 50000, Bittu's investment = 80000, Chittu's investment = X, Time for Chotu/Bittu = 12 months, Time for Chittu = 8 months, Total Profit = 40000, Chittu's Profit = 15000.

Formulas: Profit Ratio = (Investment1 × Time1) : (Investment2 × Time2)

=> Total investment-months for Chotu = 50000 × 12 = 6,00,000

=> Total investment-months for Bittu = 80000 × 12 = 9,60,000

=> Total investment-months for Chittu = X × 8 = 8X

=> Ratio of profits = 6,00,000 : 9,60,000 : 8X = 75,000 : 1,20,000 : X

=> Chittu's profit share = [8X ÷ (600000 + 960000 + 8X)] × 40000 = 15000

=> 8X ÷ (1560000 + 8X) = 15000 ÷ 40000 = 3/8

=> 64X = 3(1560000 + 8X) => 64X = 4680000 + 24X

=> 40X = 4680000 => X = 117000

Therefore The correct answer is Rs. 117000.

Additional Information

Partnership Basics

In a partnership, the profit is distributed among partners in the ratio of the product of their investment and the time period for which the investment was made.

Effective Investment

When time periods differ, calculate the equivalent investment for 1 unit of time (usually months) to find the profit-sharing ratio.

Q59. Answer: (d) Rs. 16236

Shortcut Trick

Bike Selling Price (SP) = 13200 × (100 − 18)% = 13200 × 0.82.

Since Bike SP = Mobile Cost Price (CP), Mobile CP = 10824.

Required Mobile Selling Price for 50% profit = 10824 × 1.5.

Final SP = 10824 + 5412 = 16236.

Therefore The correct answer is Rs. 16236.

Alternate Method

Given: Bike CP = Rs. 13200, Loss% = 18%, Mobile Profit% = 50%.

Formulas: SP = CP × (100 − Loss%) ÷ 100 | SP = CP × (100 + Profit%) ÷ 100

=> Bike Selling Price = 13200 × (100 − 18) ÷ 100

=> Bike SP = 13200 × 82 ÷ 100 = 132 × 82 = Rs. 10824.

=> According to the question, Mobile Cost Price = Bike SP = Rs. 10824.

=> Required Mobile Selling Price = 10824 × (100 + 50) ÷ 100

=> Mobile SP = 10824 × 1.5 = Rs. 16236.

Therefore The correct answer is Rs. 16236.

Additional Information

Cost Price and Selling Price Relationship

When a series of transactions occur where the SP of one item equals the CP of another, the values can be chained using multipliers.

Percentage Calculations

A 50% profit implies the final value is 1.5 times the original value (100% + 50%).

Q60. Answer: (c) 70

Shortcut Trick

By Alligation Method:

Ratio of Tech Leads to Freshers = (2000 − 1200) : (5500 − 2000) = 800 : 3500 = 8 : 35

Given, 8 units (Tech Leads) = 16

=> 1 unit = 2

=> 35 units (Freshers) = 35 × 2 = 70

Therefore The correct answer is 70 freshers.

Alternate Method

Given:

Average salary of Tech Leads = Rs. 5500

Average salary of Freshers = Rs. 1200

Average salary of all staff = Rs. 2000

Number of Tech Leads = 16

Calculations:

Let the number of freshers be x.

=> Total salary = Average × Total number of staff

=> 5500 × 16 + 1200 × x = 2000 × (16 + x)

=> 88000 + 1200x = 32000 + 2000x

=> 88000 − 32000 = 2000x − 1200x

=> 56000 = 800x

=> x = 56000 ÷ 800

=> x = 70

Therefore The correct answer is 70 freshers.

Additional Information

Alligation Rule

It is used to find the ratio in which two ingredients at given prices must be mixed to produce a mixture at a given price. Ratio = (Dearer Price − Mean Price) : (Mean Price − Cheaper Price).

Weighted Average

When groups with different sizes (n1, n2) and averages (a1, a2) are combined, the average A = (n1a1 + n2a2) ÷ (n1 + n2).

Q61. Answer: (b) 137

License type	Applied for the test (M)	Applied for the test (F)	(M + F) who passed the driving test	(M+F) who failed in driving test
Two wheelers	360	240	378	222
Light Motor Vehicle (LMV)	245	205	243	207
Heavy Motor Vehicle (HMV)	216	168	144	240

Total number of applicants who passed their driving license test for 'Two wheelers' = 63% × (360 + 240) = 378

Total number of applicants who passed their driving license test for 'LMV' = 54% × (245 + 205) = 243

Total number of applicants who passed their driving license test for 'HMV' = 37.5% × (216 + 168) = 144

Total number of applicants who passed all three driving license tests = 378 + 243 + 144 = 765

Let the number of 'male' applicants who passed all three driving license tests = M

ATQ, M + F = 765...(i)

And, M - F = 135...(ii)

Adding (i) and (ii)

=> 2M = 765 + 135

=> M = 450

Number of 'male' applicants who passed all three driving license tests = 450

Number of 'male' applicants who passed the 'Two wheelers' and 'HMV' driving license tests = 450 - 176 = 274

Required average = 274/2 = 137

Hence, the correct answer is 137.

Q62. Answer: (e) 16 : 23

License type	Applied for the test (M)	Applied for the test (F)	(M + F) who passed the driving test	(M+F) who failed in driving test
Two wheelers	360	240	378	222
Light Motor Vehicle (LMV)	245	205	243	207

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Heavy Motor Vehicle (HMV)	216	168	144	240

Total number of applicants who passed their driving license test for 'HMV' = 37.5% × (216 + 168) = 144
Number of applicants who failed in 'LMV' driving license test = (245 + 205) × 46% = 207
Required ratio = 144 : 207 = 16 : 23
Hence, the correct answer is 16 : 23.

Q63. Answer: (c) 46

License type	Applied for the test (M)	Applied for the test (F)	(M + F) who passed the driving test	(M+F) who failed in driving test
Two wheelers	360	240	378	222
Light Motor Vehicle (LMV)	245	205	243	207
Heavy Motor Vehicle (HMV)	216	168	144	240

Number of applicants who failed in 'LMV' driving license test = (245 + 205) × 46% = 207
Number of male applicants who were rejected for 'LMV' driving license test = (5/9) × 207 = 115
number of 'male' applicants who were rejected in 'LMV' driving license test due to failure in 'written' round = 115 × 40% = 46
Hence, the correct answer is 46.

Q64. Answer: (c) 47.29%

License type	Applied for the test (M)	Applied for the test (F)	(M + F) who passed the driving test	(M+F) who failed in driving test
Two wheelers	360	240	378	222
Light Motor Vehicle (LMV)	245	205	243	207
Heavy Motor Vehicle (HMV)	216	168	144	240

Number of applied who passed their 'Two wheelers' driving license test = 63% × (360 + 240) = 378
Number of female applicants who passed in their 'Two wheelers' driving license test = (5/14) × 378 = 135
Number of female applicants who failed in their 'Two wheelers' driving license test = 240 - 135 = 105
Number of total applicants who failed in their 'Two wheelers' driving license test = (360 + 240) - 378 = 222
Required% = (105/222) × 100 = 47.29%
Hence, the correct answer is 47.29%.

Q65. Answer: (d) 52

License type	Applied for the test (M)	Applied for the test (F)	(M + F) who passed the driving test	(M+F) who failed in driving test
Two wheelers	360	240	378	222
Light Motor Vehicle (LMV)	245	205	243	207
Heavy Motor Vehicle (HMV)	216	168	144	240

Total number of applicants who failed in driving license test for 'HMV' = 62.5% × (216 + 168) = 240
Number of applicants for applied again for 'HMV' driving license test = 80% × 240 = 192
Number of female applicants who applied again for 'HMV' driving license test = (5/12) × 192 = 80
Number of 'female' applicants who failed in their second driving license test test attempt = 80 × 65% = 52
Hence, the correct answer is 52.

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Q66. Answer: (e) Y

Seven person Y, W, U, V, Z, X and T.
Some of them are facing inside and some of them are facing outside the direction of the circle.
1- Y is sitting second to the left of W.
2- T is sitting fifth to the left of Y.
3- T is facing in opposite direction as Y.
4- One person sits between Y and T.
Case-1
Case-2
5- Z is sitting immediate left of T.
6- Z is facing is same direction as W.
7- X is sitting Second to the right of Z.
Case-1
Case-2
8- X faced away from the center.
9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.
10- One person sits between U and V from left of V.
So, Final arrangement;
All are facing the outside the direction of the circle, except Y.
Hence, Y is the correct answer.

Q67. Answer: (a) Third to the right

Seven person Y, W, U, V, Z, X and T.
Some of them are facing inside and some of them are facing outside the direction of the circle.
1- Y is sitting second to the left of W.
2- T is sitting fifth to the left of Y.
3- T is facing in opposite direction as Y.
4- One person sits between Y and T.
Case-1
Case-2
5- Z is sitting immediate left of T.
6- Z is facing is same direction as W.
7- X is sitting Second to the right of Z.
Case-1
Case-2
8- X faced away from the center.
9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.
10- One person sits between U and V from left of V.
So, Final arrangement;
Hence, T is the third to the right of W is the correct answer.

Q68. Answer: (b) four

Seven person Y, W, U, V, Z, X and T.
Some of them are facing inside and some of them are facing outside the direction of the circle.
1- Y is sitting second to the left of W.
2- T is sitting fifth to the left of Y.
3- T is facing in opposite direction as Y.
4- One person sits between Y and T.
Case-1
Case-2
5- Z is sitting immediate left of T.
6- Z is facing is same direction as W.

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7- X is sitting Second to the right of Z.
Case-1
Case-2
8- X faced away from the center.
9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.
10- One person sits between U and V from left of V.
So, Final arrangement;
Hence, four persons sit between U and V when counted from the left of U.

Q69. Answer: (e) U

Seven person Y, W, U, V, Z, X and T.
Some of them are facing inside and some of them are facing outside the direction of the circle.
1- Y is sitting second to the left of W.
2- T is sitting fifth to the left of Y.
3- T is facing in opposite direction as Y.
4- One person sits between Y and T.
Case-1
Case-2
5- Z is sitting immediate left of T.
6- Z is facing is same direction as W.
7- X is sitting Second to the right of Z.
Case-1
Case-2
8- X faced away from the center.
9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.
10- One person sits between U and V from left of V.
So, Final arrangement;
Hence, U is sitting immediate left of Y.

Q70. Answer: (a) third to the right

Seven person Y, W, U, V, Z, X and T.
Some of them are facing inside and some of them are facing outside the direction of the circle.
1- Y is sitting second to the left of W.
2- T is sitting fifth to the left of Y.
3- T is facing in opposite direction as Y.
4- One person sits between Y and T.
Case-1
Case-2
5- Z is sitting immediate left of T.
6- Z is facing is same direction as W.
7- X is sitting Second to the right of Z.
Case-1
Case-2
8- X faced away from the center.
9- Both the neighbour of Y face in opposite direction from Y. So, case-1 gets eliminated.
10- One person sits between U and V from left of V.
So, Final arrangement;
hence third to the right is correct answer

Q71. Answer: (b) za

The given information is:
'must respect old rules' is code for 'za la ka ga',
'we respect the elders' is code for 'za fa sa na,

'we must be elders' is code for ' na la da sa',
'be elders respect younger' is code for 'wa sa za da'.
The code for 'must' is 'la'.
The code for 'respect' is 'za'.
The code for 'we' is 'na'.
The code for 'elders' is 'sa'.
The code for 'the' is 'fa'.
The code for 'be' is 'da'.
The code for 'younger' is 'wa'.
The code for 'old rules' is ' ka ga'.
Hence, Code for 'respect' is 'za'.

Q72. Answer: (c) ka

The given information is:
'must respect old rules' is code for 'za la ka ga',
'we respect the elders' is code for 'za fa sa na,
'we must be elders' is code for ' na la da sa',
'be elders respect younger' is code for 'wa sa za da'.
The code for 'must' is 'la'.
The code for 'respect' is 'za'.
The code for 'we' is 'na'.
The code for 'elders' is 'sa'.
The code for 'the' is 'fa'.
The code for 'be' is 'da'.
The code for 'younger' is 'wa'.
The code for 'old rules' is ' ka ga'.
Given 'respect must old' is 'za la ga' therefore code for "old" is "ga"
Hence, Code for 'rules' is 'ka'.

Q73. Answer: (e) either option II or IV

The given information is:
'must respect old rules' is code for 'za la ka ga',
'we respect the elders' is code for 'za fa sa na,
'we must be elders' is code for ' na la da sa',
'be elders respect younger' is code for 'wa sa za da'.
The code for 'must' is 'la'.
The code for 'respect' is 'za'.
The code for 'we' is 'na'.
The code for 'elders' is 'sa'.
The code for 'the' is 'fa'.
The code for 'be' is 'da'.
The code for 'younger' is 'wa'.
The code for 'old rules' is ' ka ga'.
Hence, 'ga' code represents either 'old' or 'rules'.

Q74. Answer: (c) la na za sa

The given information is:
'must respect old rules' is code for 'za la ka ga',
'we respect the elders' is code for 'za fa sa na,
'we must be elders' is code for ' na la da sa',
'be elders respect younger' is code for 'wa sa za da'.
The code for 'must' is 'la'.
The code for 'respect' is 'za'.

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The code for 'we' is 'na'.
The code for 'elders' is 'sa'.
The code for 'the' is 'fa'.
The code for 'be' is 'da'.
The code for 'younger' is 'wa'.
The code for 'old rules' is ' ka ga'.
Hence, Code for "la na za sa'.

Q75. Answer: (a) be

The given information is:
'must respect old rules' is code for 'za la ka ga',
'we respect the elders' is code for 'za fa sa na,
'we must be elders' is code for ' na la da sa',
'be elders respect younger' is code for 'wa sa za da'.
The code for 'must' is 'la'.
The code for 'respect' is 'za'.
The code for 'we' is 'na'.
The code for 'elders' is 'sa'.
The code for 'the' is 'fa'.
The code for 'be' is 'da'.
The code for 'younger' is 'wa'.
The code for 'old rules' is ' ka ga'.
Hence, 'da' code represents word 'be'.

Q76. Answer: (e) Either option I or III

Five People: A, B, C, D and E.
Matches: 52, 39, 16, 75, 46.
Months: January, April, May, June, and August
1- The one who played 46 matches played in the month of having 30 days.
2- Only one person played between the one who played 46 and D.
3- Only one person played between C and D.

	Case-1	**Case-2**		
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.
5- The one who played 75 matches played at last.
6- The one who played 16 matches played just before the one who played 46 matches.
7- A played before B.

	Case-1	**Case-2**		
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46

August(31)	B	75	B	75

8- More than 2 People played between E and B. So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, Either A and D played 52 matches.

Q77. Answer: (d) E

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1	Case-2		
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1	Case-2		
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B. So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39

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June(30)	D	52/39
August(31)	B	75

Hence, E played the least number of matches.

Q78. Answer: (c) 75

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1	**Case-2**		
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1	**Case-2**		
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B. So, case-2 gets eliminated.

So, Final arrangement,

Month	**Person**	**Matches**
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, B played 75 matches.

Q79. Answer: (a) D

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

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2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1	Case-2		
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				
June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1	Case-2		
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B. So, case-2 gets eliminated.

So, Final arrangement,

Month	Person	Matches
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

Hence, D played the matches between A and B.

Q80. Answer: (a) 23

Five People: A, B, C, D and E.

Matches: 52, 39, 16, 75, 46

Months: January, April, May, June, and August

1- The one who played 46 matches played in the month of having 30 days.

2- Only one person played between the one who played 46 and D.

3- Only one person played between C and D.

	Case-1	Case-2		
Month	Person	Matches	Person	Matches
January(31)				
April(30)	C	46	D	
May(31)				

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June(30)	D		C	46
August(31)				

4- E played the matches just before C.

5- The one who played 75 matches played at last.

6- The one who played 16 matches played just before the one who played 46 matches.

7- A played before B.

	Case-1	**Case-2**		
Month	Person	Matches	Person	Matches
January(31)	E	16	A	
April(30)	C	46	D	
May(31)	A		E	16
June(30)	D		C	46
August(31)	B	75	B	75

8- more than 2 People played between E and B. So, case-2 gets eliminated.

So, Final arrangement,

Month	**Person**	**Matches**
January(31)	E	16
April(30)	C	46
May(31)	A	52/39
June(30)	D	52/39
August(31)	B	75

If A played 52 matches then D should play 39 matches

therefore the difference between D and E is 39-16=23.

Hence, 23 is the correct answer.

Q81. Answer: (e) M

Given word	**MONSTER**
Chosen letters	N, T, E, R
Only possible words	RENT, TERN

RENT - A tenant's regular payment to a landlord for the use of property or land.

TERN- A seabird related to the gulls, typically smaller and more slender, with long pointed wings and a forked tail.

Hence, M is the correct answer.

Q82. Answer: (c) Q

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	**Persons**	**Persons**
Case – 1	Case – 2	
General Manager	K	
Deputy General Manager		K
Assistant General manager		

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manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

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Designations	Persons	Designations	Persons	Case–1	Case–2	General Manager	K		Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager	K																								
Assistant General manager																									
manager	P																								
Assistant manager	P																								
Probationary Officer	L	O																							
clerk	O	L																							

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Designations	Persons	Persons																							
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager		K																							
Assistant General manager																									
manager		P																							
Assistant manager	P																								
Probationary Officer	L	O																							

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clerk	O	L																							

4) P is senior to O and junior to Q.

5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.

6) N is not Assistant General Manager.

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, Q is working as an assistant general manager.

Q83. Answer: (b) Two

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
Case – 1	Case – 2	
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

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Designations	Persons	Persons	Case–1	Case–2	General Manager	K		Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
Case–1	Case–2			General Manager	K			Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
General Manager	K			Deputy General Manager			K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L			
Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L							
K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L									
manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L														
P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L															
P		Probationary Officer	L	O	clerk	O	L																	
Probationary Officer	L	O	clerk	O	L																			
L	O	clerk	O	L																				
O	clerk	O	L																					
clerk	O	L																						
O	L																							
L																								

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Designations	Persons	Persons																							
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager		K																							
Assistant General manager																									
manager		P																							
Assistant manager	P																								
Probationary Officer	L	O																							

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cle rk	O	L																							

4) P is senior to O and junior to Q.

5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.

6) N is not Assistant General Manager.

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, There is Two designations between P and M.

Q84. Answer: (d) P

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
Case – 1	Case – 2	
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

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Designations	Persons	Designations	Persons	Case–1	Case–2	General Manager	K		Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager	K																								
Assistant General manager	P																								
Assistant manager	P																								
Probationary Officer	L	O																							
clerk	O	L																							

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Designations	Persons	Persons																							
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager		K																							
Assistant General manager																									
manager		P																							
Assistant manager	P																								
Probationary Officer	L	O																							

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clerk	O	L																							

4) P is senior to O and junior to Q.

5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.

6) N is not Assistant General Manager.

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, P is a person who works as an assistant manager.

Q85. Answer: (a) Only I is correct

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
Case – 1	Case – 2	
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

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Designations	Persons	Persons	Case–1	Case–2	General Manager	K		Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
Case–1	Case–2			General Manager	K			Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
General Manager	K			Deputy General Manager			K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L			
Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L							
K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L									
manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L														
P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L															
Assistant manager	P		Probationary Officer	L	O	clerk	O	L																
P		Probationary Officer	L	O	clerk	O	L																	
Probationary Officer	L	O	clerk	O	L																			
L	O	clerk	O	L																				
O	clerk	O	L																					
clerk	O	L																						
O	L																							
L																								

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Designations	Persons	Persons																							
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager		K																							
Assistant General manager																									
manager		P																							
Assistant manager	P																								
Probationary Officer	L	O																							

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cle rk	O	L																							

4) P is senior to O and junior to Q.

5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.

6) N is not Assistant General Manager.

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, an Only statement I is correct.

Q86. Answer: (b) Two

Seven employees: K, L, M, N, O, and P.

Designations: General Manager, Deputy General Manager, Assistant General Manager, Manager, Assistant Manager, Probationary Officer, and Clerk.

1) Four designations are there in between K's and L's designation. K is a senior to L.

Designations	Persons	Persons
Case – 1	Case – 2	
General Manager	K	
Deputy General Manager		K
Assistant General manager		
manager		
Assistant manager		
Probationary Officer	L	
clerk		L

2) O is a Clerk or Probationary Officer.

3) There is one designation between O and P

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Designations	Persons	Persons	Case–1	Case–2	General Manager	K		Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
Case–1	Case–2			General Manager	K			Deputy General Manager		K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L
General Manager	K			Deputy General Manager			K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L			
Deputy General Manager			K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L							
K	Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L										
Assistant General manager			manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L											
manager	P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L														
P	Assistant manager	P		Probationary Officer	L	O	clerk	O	L															
Assistant manager	P		Probationary Officer	L	O	clerk	O	L																
P		Probationary Officer	L	O	clerk	O	L																	
Probationary Officer	L	O	clerk	O	L																			
L	O	clerk	O	L																				
O	clerk	O	L																					
clerk	O	L																						
O	L																							
L																								

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Designations	Persons	Persons																							
Case–1	Case–2																								
General Manager	K																								
Deputy General Manager		K																							
Assistant General manager																									
manager		P																							
Assistant manager	P																								
Probationary Officer	L	O																							

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clerk	O	L																							

4) P is senior to O and junior to Q.

5) N is junior to M, who is senior to Q. Therefore, case 2 will be ruled out.

6) N is not Assistant General Manager.

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant manager	P
Probationary Officer	L
clerk	O

Hence, the final arrangement will be,

Designations	Persons
Case – 1	
General Manager	K
Deputy General Manager	M
Assistant General manager	Q
manager	N
Assistant Manager	P
Probationary Officer	L
clerk	O

Hence, two persons are senior to Q.

Q87. Answer: (c) S

If the vowels are changed to the next letter and the consonants are changed to the previous letters:

Given Word	S	U	B	T	I	T	L	E
After change	R	V	A	S	J	S	K	F
Alphabetical order	A	F	J	K	R	S	S	V

Hence, ‘S’ is 4^(th) to the right of 3^(rd) letter from the left end.

Q88. Answer: (d) Grandfather

Drawing blood relation diagram using the following symbol table:

1- A is married to B.

2- C is the only brother of A.

3- D is Brother in law of B.

4- K is father in law of D.

5- K is the paternal grandfather of G.

6- H is the sister of G.

7- I is son in law of B.

8- J is the mother of A.

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9- E is married to D.

So, Final arrangement;

Hence, If X is father in law of B then X is Grandfather of G.

Q89. Answer: (b) Daughter

Drawing blood relation diagram using the following symbol table:

1- A is married to B.

2- C is only brother of A.

3- D is Brother in law of B.

4- K is father in law of D.

5- K is the paternal grandfather of G.

6- H is the sister of G.

7- I is son in law of B.

8- J is the mother of A.

9- E is married to D.

So, Final arrangement;

Hence, H is daughter of A.

Q90. Answer: (c) Grandfather

Drawing blood relation diagram using the following symbol table:

1- A is married to B.

2- C is only brother of A.

3- D is Brother in law of B.

4- K is father in law of D.

5- K is the paternal grandfather of G.

6- H is the sister of G.

7- I is son in law of B.

8- J is the mother of A.

9- E is married to D.

So, Final arrangement;

Hence, K is the Grandfather of H.

Q91. Answer: (c) Three

Given: DISCHARGE

Hence, Three pairs of letters are there in the word ‘DISCHARGE’, each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet.

Q92. Answer: (b) M-A

Eight people A, B, C, D, K, L, M, and N.

Four of them are sitting in Row-1 facing North.

Four are sitting in Row-2 facing South.

1- The one who likes Orange sits on one end of Row-1.

2- C likes black and sits immediately to M, who is facing the one who likes Orange.

3- One person is sitting between B and C.

Case-1

Case-2

4- Immediate neighbour of B faces D.

5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.

6- Only one person is sitting between D and A.

Case-1

Case-2

7- The one who likes Green sits immediately to the left of the one who likes Yellow.

8- K is an immediate neighbour of A.

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Case-1
Case-2
9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.
So, Final arrangement;
M-A are sitting on the end.

Q93. Answer: (e) C

Eight people A, B, C, D, K, L, M, and N.
Four of them are sitting in Row-1 facing North.
Four are sitting in Row-2 facing South.
1- The one who likes Orange sits on one end of Row-1.
2- C likes black and sits immediately to M, who is facing the one who likes Orange.
3- One person is sitting between B and C.
Case-1
Case-2
4- Immediate neighbour of B faces D.
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.
6- Only one person is sitting between D and A.
Case-1
Case-2
7- The one who likes Green sits immediately to the left of the one who likes Yellow.
8- K is an immediate neighbour of A.
Case-1
Case-2
9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.
So, Final arrangement;
Here, M, A, B, L are sitting on the corner and C is not.
C is the odd one.

Q94. Answer: (d) A

Eight people A, B, C, D, K, L, M, and N.
Four of them are sitting in Row-1 facing North.
Four are sitting in Row-2 facing South.
1- The one who likes Orange sits on one end of Row-1.
2- C likes black and sits immediately to M, who is facing the one who likes Orange.
3- One person is sitting between B and C.
Case-1
Case-2
4- Immediate neighbour of B faces D.
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.
6- Only one person is sitting between D and A.
Case-1
Case-2
7- The one who likes Green sits immediately to the left of the one who likes Yellow.
8- K is an immediate neighbour of A.
Case-1
Case-2
9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.
So, Final arrangement;
A is sitting immediately to the right of the one who likes Purple.

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Q95. Answer: (b) Two

Eight people A, B, C, D, K, L, M, and N.
Four of them are sitting in Row-1 facing North.
Four are sitting in Row-2 facing South.
1- The one who likes Orange sits on one end of Row-1.
2- C likes black and sits immediately to M, who is facing the one who likes Orange.
3- One person is sitting between B and C.
Case-1
Case-2
4- Immediate neighbour of B faces D.
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.
6- Only one person is sitting between D and A.
Case-1
Case-2
7- The one who likes Green sits immediately to the left of the one who likes Yellow.
8- K is an immediate neighbour of A.
Case-1
Case-2
9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.
So, Final arrangement;
Two people sitting between M and B.

Q96. Answer: (c) N

Eight people A, B, C, D, K, L, M, and N.
Four of them are sitting in Row-1 facing North.
Four are sitting in Row-2 facing South.
1- The one who likes Orange sits on one end of Row-1.
2- C likes black and sits immediately to M, who is facing the one who likes Orange.
3- One person is sitting between B and C.
Case-1
Case-2
4- Immediate neighbour of B faces D.
5- The one who likes Purple sits immediately to the right of D, who likes Blue colour.
6- Only one person is sitting between D and A.
Case-1
Case-2
7- The one who likes Green sits immediately to the left of the one who likes Yellow.
8- K is an immediate neighbour of A.
Case-1
Case-2
9- Only one person sitting between K and L, who doesn't like either White or Purple. So, case-2 gets eliminated.
So, the Final arrangement;
N likes Green colour.

Q97. Answer: (e) 20

Given: 67843624
digits less than 5 subtracted by one and digits greater than 5 added by one then,

Given	**6**	**7**	**8**	**4**	**3**	**6**	**2**	**4**
Operation	+1	+1	+1	-1	-1	+1	-1	-1
New number	7	8	9	3	2	7	1	3

So, Non repeated numbers are 8, 9, 2, 1.

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Sum of 8+ 9+ 2+ 1= 20,

Hence, 20 is the sum of non repeated numbers.

Q98. Answer: (b) Two

1) Person A got last rank in class.

___>_>__> _>___> A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have following cases.

Case I

B > C >____> ___> E > A

Case II

B > > C > > E > A

Case III

___>___> B > C > E > A

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

D > F > B > C > E > A

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, Two person got more marks than B.

Q99. Answer: (c) 93

1) Person A got last rank in class.

___>_>__> _>___> A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have here two cases.

Case I

B > C >____> ___> E > A

Case II

B > > C > > E > A

Case III

___>___> B > C > E > A

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

D > F > B > C > E > A

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, D got 93 marks possibly.

Q100. Answer: (d) Four

1) Person A got last rank in class.

___>_>__> _>___> A

2) B got more marks than C. but he did not get Second rank in class.

3) E got more marks than only A.

We have here two cases.

Case I

B > C >____> ___> E > A

Case II

B > > C > > E > A

Case III

___>___> B > C > E > A

4) F was situated between D and B in class test ranking, and B score less than D.

Case I, II get eliminated.

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D > F > B > C > E > A

6) The Second highest person got 92 marks.so, F got 92 marks.

Hence, C's rank is four.

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