SBI Clerk Prelims 2022 (20th Nov) Shift-wise PYP Mock- 03

Directions (1-5): Study the following information carefully and answer the questions given below.

Nine persons from A to I were born in nine different months (but not necessarily in the same order) i.e., January, February, March, April, June, July, August, September and December of a same year.

Three persons were born between I and H. At most two persons were born after I. G was born just before C and just after E who was born in the month having 30 days. Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days. Number of persons were born between A and H is same as the number of persons were born between B and F.

Q1. How many persons were born between F and I?

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

Q2. Who among the following was born in July?

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

Q3. Four of the following five are alike in a certain way and thus forms a group, then who among the following doesn't belong to that group?

(a) D
(b) E
(c) H
(d) C
(e) I

Q4. Who among the following was born two months before B?

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

Q5. H was born in _____ month.
(a) April
(b) February
(c) March
(d) September
(e) July

Directions (6-9): Study the following information to answer the questions given below:

G Y 5 % 5 P @ 4 O & 7 K # 4 @ 6 1 * 7 O 2 9 Z 3 $ 2 P 8 ? K L ! 9

Q6. How many such numbers are there which are immediately followed by a letter and immediately preceded by a symbol?
(a) Six
(b) Seven
(c) Eight
(d) Five
(e) None of the above

Q7. What will be the sum of fourth number from both ends?
(a) 13
(b) 14
(c) 15
(d) 16
(e) 10

Q8. Which of the following is the 2nd symbol to the left of 22nd element from right end?
(a) @
(b) %
(c) $
(d) &
(e) None of the above

Q9. How many such vowels are there which are immediately followed by an even number and immediately preceded by a symbol?
(a) Two
(b) Three
(c) Four
(d) One
(e) None

Q10. How many pairs of letters are there in the word 'HILARIOUS' which has as many letters between them in the word as in English alphabetical series (both in forward and backward direction)?
(a) Three
(b) Four
(c) Five
(d) Six
(e) None of the above

Directions (11-12): Study the following information carefully and answer the questions given below.
Seven batsmen scored different runs in a match. Q scored more runs than only two batsmen. R scored just more runs than V and just less runs than S who scored less runs than P. T scored more runs than U.

Q11. Who is the 2nd highest scorer?
(a) P
(b) S
(c) T
(d) R
(e) None of these

Q12. How many batsmen scored less runs than R?
(a) Two
(b) Three
(c) Four
(d) Five
(e) Either Two or Four

Directions (13-17): Study the following information carefully and answer the questions given below.
Eight boxes are kept one above the other in a shelf such that the bottommost box is numbered as 1, just above it is numbered as 2 and so on till the topmost box is numbered as 8. More than four boxes are kept between the box S and box Q which is kept below the box number 4. One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q. Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to box T.

Q13. How many boxes are kept above box M?
(a) None
(b) One
(c) Three
(d) Two
(e) None of these

Q14. Which of the following box is kept three places below box C?
(a) Box D
(b) Box W
(c) Box M
(d) Box Q
(e) None of these

Q15. Four of the following five are alike in a certain way and thus forms a group, then which of the following doesn't belong to that group?
(a) Box M
(b) Box C
(c) Box S
(d) Box W
(e) Box D

Q16. Which of the following combination is not correct?
(a) Box D – box 1
(b) Box W – box 3
(c) Box M- box 8
(d) Box X – box 4
(e) Box T – box 6

Q17. Which of the following box is placed at 7th numbered box?
(a) Box M
(b) Box W
(c) Box S
(d) Box C
(e) None of these

Directions (18-19): Study the following information carefully and answer the questions given below.
A person is going to his office from his home. He walks 4m in south from his home and reaches at point N. Now he takes a right turn and reaches at point M after walking 2m more than his previous distance. From point M he walks 8m in north and reaches at point A. Then he takes a left turn and walks 5m to reach point P. Now he takes right turn and walks 10m to reach his office (destination).

Q18. In which direction is person's office with respect to his home?
(a) North east
(b) South west
(c) North west
(d) North
(e) None of these

Q19. What is the shortest distance between point A and point N?
(a) 10m
(b) √10m
(c) 2√5m
(d) 12m
(e) None of these

Directions (20-23): Read the given information carefully to answer the following questions:
Ten persons sit in two parallel rows in such a way that five persons sit in each row. A, E, I, O and U sit in row 1 and face in north while F, L, R, V and Z sit in row 2 and face in south. The persons sit in row 1 faces the persons sit in row 2 and vice versa. The given information is not necessarily in the same order. A sit diagonally opposite to L. Two persons sit between A and O. The number of persons sit to the right of O is same as the number of persons sit to the left of Z. E does not sit adjacent to O but sits opposite to R. V sits just right of R. The person who faces U sits second to the left of V.

Q20. Who among the following sits second to the left of F?
(a) Z
(b) L
(c) V
(d) R
(e) Either L or V

Q21. Who among the following sits opposite to O?
(a) Z
(b) V
(c) L
(d) F
(e) Either F or L

Q22. Which among the following statement is correct?
(a) R sits adjacent to F
(b) One person sits between A and U
(c) Z sits opposite to O
(d) F sits exactly in the middle of row 2
(e) All are correct

Q23. __ faces the person who sits third to the right of L?
(a) I
(b) O
(c) A
(d) E
(e) U

Directions (24-27): Study the following information carefully and answer the questions given below.

Eight persons- P, Q, R, S, T, U, V and W are working in a bank at different designations such as Chairman, General Manager (GM), Deputy General Manager (DGM), Additional General Manager (AGM), Manager, Assistant Manager (AM), Probationary Officer (PO) and Clerk. Designations are in decreasing order whereas the chairman is the senior most designation and the clerk is the junior most designation.

Not more than three persons are senior to U. U is neither designated as chairman nor general manager. Only two persons are designated between U and R. V is just senior to R. The number of persons junior to R is one less than the number of persons senior to T. S is just senior to P. Two persons are designated between P and Q.

Q24. How many persons are senior to the one who is just junior to R?

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

Q25. Who among the following person is designated as Manager?

(a) The one who is just junior to V
(b) V
(c) Q
(d) T
(e) None of these

Q26. Which among the following statement(s) is/are true?

(a) Two persons are designated between W and U
(b) T is senior to Q
(c) S is designated as Manager
(d) V is junior to W
(e) All are true

Q27. Four among the following five are similar in a way to form a group, which one of the following doesn't belong to the group?

(a) U-R
(b) P-Q
(c) T-V
(d) Q-W
(e) P-T

Q28. If we form a four-letter meaningful word with 1st, 3rd, 4th and 7th letter from the left end of the word 'DETAILED' (using each letter only once), then which would be the third letter from left end of that meaningful word? If no meaningful word is formed, then mark the answer as X. If more than one meaningful word is formed then, mark the answer as Z.

(a) A
(b) T
(c) D
(d) X
(e) Z

Directions (29-33): Study the following series carefully and answer the questions given below.

435 654 723 892 345

Q29. If we arrange all numbers in descending order from right to left then, the position of how many numbers remain unchanged?

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

Q30. If we interchange 1st and 3rd digit of each number then, how many numbers thus formed are even?

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

Q31. If we interchanged 1st and 2nd digit of each number then, which of the following number becomes 3rd highest number?

(a) 435
(b) 892
(c) 345
(d) 723
(e) 654

Q32. If we interchange 2nd and 3rd digit of each number, then how many numbers become odd?

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

Q33. What is the total sum of 3rd digit of 2nd number from left end and 2nd digit of 3rd number from right end?

(a) 6
(b) 8
(c) 5
(d) 4
(e) None of these

Q34. How many such numerals are there in the number '4576893712' which will remain at the same position when arranged in ascending order from left to right?

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

Q35. Find the odd one out?

ACD FHI KMN PRT VXY

(a) VXY
(b) PRT
(c) FHI
(d) ACD
(e) KMN

Directions (36-45): What will come in the place of question (?) mark?

Q36. $55\%\text{ of }1400 + ?^2 + 282 = (12)^3$

(a) 28
(b) 24
(c) 26
(d) 36
(e) 16

Q37. $42\%\text{ of }500 + 22.5\%\text{ of }? = 6 \times \sqrt{5041}$

(a) 840
(b) 960
(c) 800
(d) 600
(e) 400

Q38. $? + (13)^3 = (59)^2 - 681$

(a) 603
(b) 593
(c) 613
(d) 623
(e) 583

Q39. $\frac{7.5\% \text{ of } 7200}{?} + 450 = 15\% \text{ of } 3200$

(a) 15
(b) 24
(c) 20
(d) 18
(e) 12

Q40. $? + 15\frac{3}{4} - 3\frac{1}{3} \times 3\frac{3}{4} = 5$

(a) 1.5
(b) 2.25
(c) 1.75
(d) 2
(e) 2.75

Q41. $\sqrt{441 - 41} \times 42 \div 7 = ?$

(a) 20
(b) 60
(c) 180
(d) 120
(e) 80

Q42. $\frac{?}{\sqrt{25}} = \frac{15 \times 4 - 40}{2}$

(a) 20
(b) 45
(c) 25
(d) 50
(e) 60

Q43. $621 \div 27 \times 2 - 37 = \sqrt{?}$

(a) 9
(b) 3
(c) 81
(d) $3\sqrt{3}$
(e) 21

Q44. 36% of 250 × 18% of 50 = ? + 10
(a) 820
(b) 810
(c) 790
(d) 800
(e) 700

Q45. $[(7)^2 - (6)^2] \div 26 = 18 \div ?$
(a) 18
(b) 36
(c) 9
(d) 40
(e) 42

Directions (46-50): Table given below shows the percentage distribution of students in three different streams in five different schools. Read the following table carefully and answer the questions given below.

Streams ⇒ Schools ⇓	Arts	Commerce	Science	Total number of students in school
A	30	15	55	1200
B	25	45	30	1500
C	24	42	34	800
D	35	40	25	1800
E	45	20	35	2500

Note: There are only three streams in each school.

Q46. Find the ratio of total number of students in commerce stream from D to total number of students in science stream from B?
(a) 5:7
(b) 8:5
(c) 5:8
(d) 7:5
(e) 8 : 7

Q47. Find the average number of students in arts stream from A, B, D & E together?
(a) 618.5
(b) 368.5
(c) 238.5
(d) 622.5
(e) 538.5

Q48. Total number of students in commerce stream from C is approximately what percent less than total number of students in science stream from A?

(a) 47%
(b) 43%
(c) 53%
(d) 39%
(e) 49%

Q49. Find the difference between total number of students in science stream from B & E together and total number of students in arts & commerce stream together from A?
(a) 765
(b) 815
(c) 785
(d) 775
(e) 795

Q50. Find the sum of total number students in commerce stream from D and total number of students in science stream from C?
(a) 752
(b) 992
(c) 1022
(d) 872
(e) 962

Directions (51-55): What will come in the place of question mark (?) in the following number series:

Q51. 2, ?, 4, 16, 128, 2048
(a) 1
(b) 2
(c) 4
(d) 3
(e) 0.5

Q52. 14, 15, 11, ?, 4, 29
(a) 20
(b) 16
(c) 25
(d) 9
(e) 11

Q53. 8, 7, 15, 44, 177, ?
(a) 729
(b) 841
(c) 884
(d) 991
(e) 900

Q54. ?, 6, 9, 22.5, 78.75, 354.375
(a) 1
(b) 2
(c) 4
(d) 10
(e) 12

Q55. 4800, 2400, ?, 1200, 1200, 600
(a) 1600
(b) 2400
(c) 3200
(d) 2000
(e) 800

Directions (56-60): Read the given information carefully and answers the following questions.
There are three schools A, B & C. The average number of students in B & C is 360 whereas the average of students in A & C is 305. Average of students of A & B is 325. Ratio of boys to girls in A is 5:4 and in B, boys are 10% less than girls. The ratio of boys in B to that of in C is 9:8.

Q56. Total boys in A & B together are how much more or less than total students in C?
(a) 50
(b) 40
(c) 10
(d) 20
(e) 30

Q57. Total students in A are what percent more or less than total girls in A & C together?
(a) 10%
(b) 15%
(c) 12.5%
(d) 20%
(e) 25 %

Q58. Average number of boys & girls in B is what percent of the boys in C?
(a) 112.5%
(b) 117.75%
(c) 122.5%
(d) 115%
(e) 118.75%

Q59. Find ratio of total number of boys in B & C together to the total number of girls in A & B together?
(a) 15:14
(b) 19:16
(c) 19: 17
(d)17: 16
(e) 11: 9

Q60. 60% & 80% of the boys & girls respectively in A are participated in NCC, then find percentage of students from A who participated in NCC?
(a) $65\frac{5}{9}\%$
(b) $68\frac{8}{9}\%$
(c) $66\frac{2}{3}\%$
(d) $67\frac{2}{9}\%$
(e) $67\frac{7}{9}\%$

Q61. Roman bought an article for Rs 5,840. He spent Rs. 360 on its shipping. He then sold it for Rs. 6,500, then find the approximate profit or loss % in this transaction.
(a) 5%
(b) 2%
(c) 8%
(d) 13%
(e) 17%

Q62. Five years ago, Mansi age was 2/3rd of Mayank age at that time. The ratio of Mansi and Mayank 5 years hence is 6:7 respectively, then find the Mansi age after 4 years?
(a) 11 years
(b) 18 years
(c) 25 years
(d) 14 years
(e) 8 years

Q63. Pipe P alone can fill a tank in 18 min and Pipes P & Q together can fill the same tank in 12 min. If efficiency of pipe R is 80% more than that of pipe Q, then find the time taken by pipe R alone to fill the whole tank (in min).
(a) 25
(b) 20
(c) 10
(d) 15
(e) 5

Q64. P, Q and R started a business with their investment in the ratio of 3:5:1 respectively. After 5 months P invested the same amount as before but Q withdrew 2/5th of their investment. The total profit at the end of one year is Rs. 3,450, then find profit earned by R.
(a) Rs.315
(b) Rs.420
(c) Rs.360
(d) Rs.540
(e) Rs.130

Q65. The circumference of the semicircle is 54cm. If the side of square is 40% more than the diameter of the semicircle, then what is the perimeter of the square?
(a) 132.6 cm
(b) 111.6 cm
(c) 154.6 cm
(d) 121.6 cm
(e) 117.6 cm

Q66. A boat takes total time of 32 hours to travel 120 km downstream and same distance upstream. The speed of boat in still water is four times that of the current, then what is the time taken by boat to travels 80 km downstream?
(a) 12hours
(b) 2 hours
(c) 8 hours
(d) 5 hours
(e) 10 hours

Q67. At 40% of its usual speed, a train of length L meters crosses a platform 320 meter long in 20 seconds. At its usual speed, the train crosses a pole in 4 seconds. What is the value of L?
(a) 260 meters
(b) 320 meters
(c) 540 meters
(d) 410 meters
(e) 125 meters

Q68. There is 80% increase in an amount in 8 years at simple interest. What will be the compound interest of Rs. 15,000 after 3 years at the same rate of interest?
(a) Rs. 4,965
(b) Rs. 5,500
(c) Rs. 4,700
(d) Rs. 4,265
(e) Rs. 5,865

Q69. A, B and C can do a piece of work in 15, 10 and 30 days respectively. In how many days can A do the work if he is assisted by B and C on every 3rd day?

(a) 15 days
(b) 3 days
(c) 6 days
(d) 9 days
(e) 12 days

Q70. A container contains 30 liters of wine. From this container 3 liters of wine was taken out replaced by water. This process was repeated further two times. How much wine is now contained by container?
(a) 12.45 liters
(b) 21.87 liters
(c) 29.50 liters
(d) 17.65 liters
(e) 25.31 liters

Directions (71-80): Read the given passage carefully and answer the following questions. Certain parts have been highlighted to help answer the questions.
Cryptocurrency will be discouraged via taxation and capital gains provisions. This was the message from the Finance Minister during the Budget discussion in Parliament. Will this slow the growing use of cryptos in India? Russian kleptocrats have been using cryptos to escape sanctions. Ukraine has been a centre for cryptos trading due to its lax rules and is using them to raise funds for its war with Russia. The Governor of the Reserve Bank of India, in February, highlighted two things. First, "private cryptocurrencies are a big threat to our financial and macroeconomic stability". Second, "these cryptocurrencies have no underlying (asset)... not even a tulip". Soon thereafter, a Deputy Governor of the RBI called cryptos worse than a Ponzi scheme and argued against "legitimizing" them. Yet, the RBI announced that it will float a Central Bank Digital Currency (CBDC). How do we understand all this? The Supreme Court of India has also asked the Government whether or not cryptos are legal.
The Governor calling cryptos as cryptocurrency has unintentionally identified them as a currency. Clearly, statements from the RBI **indicate** a growing worry since the **proliferation** of cryptos threatens the RBI's place in the economy's financial system. This threat emerges from the decentralised character of cryptos based on blockchain technology which central banks cannot regulate and which enables enterprising private entities to float cryptos which can function as assets and money. Cryptos which operate via the net can be banned only if all nations come together. Even then, tax havens may allow cryptos to function, defying the global agreement. They have been facilitating the flight of capital and illegality in spite of pressures from powerful nations. **The genie is out of the bottle**. The total valuation of cryptos recently was upward of $2 trillion — more than the value of gold held globally.
A CBDC will not solve the RBI's problem since it can only be a fiat currency and not a crypto. However, cryptos can function as money. This difference needs to be understood. A currency is a token used in market transactions. Historically, commodities (such as copper coins) have been used as tokens since they themselves are valuable. But paper currency is useless till the government declares it to be a fiat currency. It is only then that everyone accepts it at the value printed on it. So, paper currency **derives** its value from state backing. Cryptos are a string of numbers in a computer programme and are even more **worthless**. And, there is no state backing.

Q71. What is/are the RBI's concern(s) about cryptocurrency?
(a) None of the given below
(b) Private cryptocurrency is a hazard to our financial stability.
(c) The cryptocurrencies have no deriving financial assets.
(d) Private currency can cause excessive fluctuations in macroeconomics.
(e) All (b), (c) and (d)

Q72. What is the measure adopted by the government to curb cryptocurrency?
(a) RBI has taken control over blockchain technology of crypto.
(b) Government has imposed taxation and capital gain provision.
(c) Finance Ministry has announced cryptocurrency illegal.
(d) Government has initiated many other investment options.
(e) None of these

Q73. How cryptocurrency proliferation is a menace to RBI's existence in economy's financial system?
(a) Private entities owned crypto can penetrate the market in the form of finance and assets.
(b) RBI can't regulate the blockchain technology of crypto.
(c) Due to RBI's inability to form new policies and regulations for digital currency.
(d) Only (a) and (b)
(e) Only (b) and (c)

Q74. Why Central Bank Digital Currency cannot solve the RBI's problem?
(a) Since CBDC is an Indian currency, it won't be used to make international transactions.
(b) RBI will keep a check on every CBDC transaction and this makes it repugnant.
(c) Because CBDC is a fiat currency and cannot be used for transactions as cryptocurrency.
(d) Because it cannot give as much high returns as cryptocurrency gives.
(e) None of these

Q75. Which of the following is true with respect to the cryptocurrency in Ukraine?
(a) Ukraine is using crypto as a means to raise funds for its war with Russia.
(b) Trading of cryptocurrency is very prominent in Ukraine.
(c) Crypto trading rules in Ukraine are not very strict.
(d) All of these
(e) None of these

Q76. Which of the following options conveys the meaning of 'The genie is out of the bottle'?
(a) Something has happened that cannot then be stopped.
(b)Strong impact of something on people's lifestyle and their behavior especially on emotions.
(c) Introduction of something new which has never been experienced in the life by anyone.
(d) Contradiction in opinions of something in the society which divides them on their opinion basis.
(e) None of these

Q77. Which of the following words is a synonym of '**worthless'** given in the passage?
(a) repudiate
(b) bog
(c) futile
(d) attrition
(e) None of these

Q78. Which of the following words is an antonym of '**proliferation'** given in the passage?
(a) wither
(b) incursion
(c) inquest
(d) colossal
(e) None of these

Q79. Which of the following words is a synonym of "**indicate**" given in the passage?
(a) signify
(b) declare
(c) delineate
(d) proclaim
(e) None of these

Q80. Which of the following words is an antonym of "**derives**" given in the passage?
(a) infers
(b) misinterpretation
(c) grooves
(d) misreads
(e) None of these

Directions (81-85): Rearrange the following statements in the proper sequence to form a meaningful paragraph and then answer the questions given below.
(A) Hydrogen and electricity have emerged as viable options to meet this energy demands.
(B) Because hydrogen has a multifaceted role to play in the futuristic energy landscape.
(C) Increasing economic prosperity has significantly increased India's energy appetite.
(D) Moreover, it will be accelerating renewables into India's clean energy transition.
(E) The new age fuel, hydrogen, is touted as India's gateway to energy independence.

Q81. Which of the following will be the **SECOND** sentence after Rearrangement?
(a) B
(b) A
(c) D
(d) C
(e) E

Q82. Which of the following will be the **THIRD** sentence after Rearrangement?
(a) A
(b) C
(c) B
(d) E
(e) D

Q83. Which of the following will be the **FIFTH** sentence after Rearrangement?
(a) B
(b) D
(c) E
(d) A
(e) C

Q84. Which of the following will be the **FIRST** sentence after Rearrangement?
(a) E
(b) B
(c) D
(d) C
(e) A

Q85. Which of the following will be the correct sequence of the given statements to form a coherent paragraph?
(a) BDCAE
(b) EBDCA
(c) CAEBD
(d) AEDCB
(e) ADCEB

Directions (86-90): Each question below has one blank, which is indicating that something has been omitted. Find out which word from option can be used to fill up the blank to make it meaningfully complete.

Q86. India has _____as a democratic superpower.
(a) passably
(b) serve
(c) emerged
(d) retreated
(e) staunched

Q87. The decision taken in Colombo to host a summit every two years is welcome if_____.
(a) impeded
(b) imported
(c) prohibited
(d) imperilled
(e) implemented

Q88. Protesters gathered near the house of President Gotabaya Rajapaksa in a _____bid to highlight their suffering.
(a) desperate
(b)empathic
(c) dawdle
(d) robust
(e) resolution

Q89. The record monthly receipts _____that a faster recovery was underway in business activity.
(a) implicate
(b) incursive
(c) indicated
(d) crested
(e) ally

Q90. The ways and means advances are _____advances given by the RBI to the government to tide over any mismatch in receipts and payments.
(a) dictate
(b) intense
(c) coercive
(d) temporary
(e)imminent

Directions (91-95): Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error the answer is (E). (Ignore errors of punctuation, if any.)

Q91. It's clear the (A)/double whammy of the (B)/ pandemic and the war have (C)/ disrupted supply chains (D)/ No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q92. While child labour has declined (A)/ globally during the past decade, (B)/ estimates indicate that the rate of (C)/ reduction have slowed by two-thirds. (D)
(a) B
(b) A
(c) D
(d) C
(e) All are correct

Q93. The national income estimates released by the NSO (A)/ posits an economy that appears to have found (B)/ some footing in the January-March quarter (C)/ before the pandemic's second wave hit. (D)
(a) B
(b) A
(c) D
(d) C
(e) All are correct

Q94. While the government has relaxed (A)/ its rules for foreign manufacturers, (B)/ waiving the need for bridge trials will requires (C)/ considerable backtracking from firmly held principles. (D)
(a) B
(b) A
(c) D
(d) C
(e) All are correct

Q95. With unabated job losses pushing overall (A)/ unemployment to a one-year high of 11.9% in May, (B)/ only nationwide direct job and income-boosting measures (C)/ can prevent the economy from backsliding again. (D)
(a) B
(b) A
(c) D
(d) C
(e) All are correct

Directions (96-100): In every question a word is given and with respect to that, three sentences are given. Choose the sentence(s) that has/have the INCORRECT usage of the word. If all are correct, choose "All are correct" as your answer.

Q96. Crumble
(A) When his mother died, the man felt as if his world would **crumble** under his feet
(B) He was worried his pink pants would **crumble** him a bit, but he wore them anyway.
(C) Instead of showing his mother his paper, the boy chose to **crumble** it up.
(a) Only (A)
(b) Only (B)
(c) Only (A) and (B)
(d) Only (B) and (C)
(e) All are correct

Q97. Egregious
(A) He will have to be punished for **egregiously** flouting all the rules of the institution
(B) In many emerging economies corruption is **egregious** and overt.
(C) The judge said it was the most **egregious** act he had ever seen!

(a) Only (A)
(b) Only (B) and (C)
(c) Only (A) and (B)
(d) Only (C)
(e) All are correct

Q98. Ubiquitous
(A) Although he has fallen into **ubiquitous**, the effect on his reputation will probably be more temporary than indelible.
(B) Take your time and think about this **ubiquitous** decision you are about to make!
(C) Because the police presence was **ubiquitous** at the parade, everyone felt very safe.
(a) Only (A)
(b) Only (B) and (C)
(c) Only (A) and (B)
(d) Only (C)
(e) All are correct

Q99. Grumble
(A) The mother didn't mean to **grumble**, but she was tired and her children refused to do their chores.
(B) Grandpa likes to **grumble** about how rude it is that children are always on their cellphones at the dinner table
(C) The politician ended his speech with a **grumble** about every man's right to vote.
(a) Only (A)
(b) Only (B) and (C)
(c) Only (A) and (B)
(d) Only (C)
(e) All are correct

Q100. INFIRM
(i) It seems the airport management is discriminatory against the elderly and **infirm**
(ii) The number of fresh cases of COVID-19 in the country has been going up **infirm**
(iii) Telepathy has been **infirm** by scientists of world-wide distinction.
(a) All of these
(b) Only (i)
(c) Both (ii) & (iii)
(d) Both (i) & (ii)
(e) Only (ii)

Solutions

S1. Ans.(a)

Sol. Three persons were born between I and H. At most two persons were born after I. There are three possible cases: -

Months	Persons Case1	Persons Case 2	Persons Case 3
January			
February			
March	H		
April		H	
June			H
July			
August	I		
September		I	
December			I

G was born just before C and just after E who was born in the month having 30 days, so case 3 is ruled out here.

Months	Persons Case1	Persons Case 2	~~Persons Case 3~~
January			
February			
March	H		
April	E	H	
June	G	E	~~H~~
July	C	G	
August	I	C	
September		I	
December			~~I~~

Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days, case 2 is eliminate here and one more case added – case 1a.

Months	Persons Case1	~~Persons Case 2~~	Persons Case1a
January	D		D
February	A	~~A~~	B
March	H		H
April	E	~~H~~	E
June	G	~~E~~	G
July	C	~~G~~	C
August	I	~~C~~	I
September	B	~~I~~	A
December			

Number of persons were born between A and H is same as the number of persons were born between B and F, so case 1a is cancelled here and the final arrangement is:

Months	Persons
January	D
February	A
March	H
April	E
June	G
July	C
August	I
September	B
December	F

One person was born between F and I.

S2. Ans.(d)

Sol. Three persons were born between I and H. At most two persons were born after I. There are three possible cases: -

Months	Persons Case1	Persons Case 2	Persons Case 3
January			
February			
March	H		
April		H	
June			H
July			
August	I		
September		I	
December			I

G was born just before C and just after E who was born in the month having 30 days, so case 3 is ruled out here.

Months	Persons Case1	Persons Case 2	~~Persons Case 3~~
January			
February			
March	H		
April	E	H	
June	G	E	~~H~~
July	C	G	
August	I	C	
September		I	
December			~~I~~

Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days, case 2 is eliminate here and one more case added – case 1a.

Months	Persons Case1	~~Persons Case 2~~	Persons Case1a
January	D		D
February	A	~~A~~	B
March	H		H
April	E	~~H~~	E
June	G	~~E~~	G
July	C	~~G~~	C
August	I	~~C~~	I
September	B	~~I~~	A
December			

Number of persons were born between A and H is same as the number of persons were born between B and F, so case 1a is cancelled here and the final arrangement is:

Months	Persons
January	D
February	A
March	H
April	E
June	G
July	C
August	I
September	B
December	F

C was born in July.

S3. Ans.(b)

Sol. Three persons were born between I and H. At most two persons were born after I. There are three possible cases: -

Months	Persons Case1	Persons Case 2	Persons Case 3
January			
February			
March	H		
April		H	
June			H
July			
August	I		
September		I	
December			I

G was born just before C and just after E who was born in the month having 30 days, so case 3 is ruled out here.

Months	Persons Case1	Persons Case 2	~~Persons Case 3~~
January			
February			
March	H		
April	E	H	
June	G	E	~~H~~
July	C	G	
August	I	C	
September		I	
December			~~I~~

Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days, case 2 is eliminate here and one more case added – case 1a.

Months	Persons Case1	~~Persons Case 2~~	Persons Case1a
January	D		D
February	A	~~A~~	B
March	H		H
April	E	~~H~~	E
June	G	~~E~~	G
July	C	~~G~~	C
August	I	~~C~~	I
September	B	~~I~~	A
December			

Number of persons were born between A and H is same as the number of persons were born between B and F, so case 1a is cancelled here and the final arrangement is:

Months	Persons
January	D
February	A
March	H
April	E
June	G
July	C
August	I
September	B
December	F

Except E all of them were born in the month having 31 days

S4. Ans.(e)

Sol. Three persons were born between I and H. At most two persons were born after I. There are three possible cases: -

Months	Persons Case1	Persons Case 2	Persons Case 3
January			
February			
March	H		
April		H	
June			H
July			
August	I		
September		I	
December			I

G was born just before C and just after E who was born in the month having 30 days, so case 3 is ruled out here.

Months	Persons Case1	Persons Case 2	~~Persons Case 3~~
January			
February			
March	H		
April	E	H	
June	G	E	~~H~~
July	C	G	
August	I	C	
September		I	
December			~~I~~

Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days, case 2 is eliminate here and one more case added – case 1a.

Months	Persons Case1	~~Persons Case 2~~	Persons Case1a
January	D		D
February	A	~~A~~	B
March	H		H
April	E	~~H~~	E
June	G	~~E~~	G
July	C	~~G~~	C
August	I	~~C~~	I
September	B	~~I~~	A
December			

Number of persons were born between A and H is same as the number of persons were born between B and F, so case 1a is cancelled here and the final arrangement is:

Months	Persons
January	D
February	A
March	H
April	E
June	G
July	C
August	I
September	B
December	F

C was born two months before B.

S5. Ans.(c)

Sol. Three persons were born between I and H. At most two persons were born after I. There are three possible cases: -

Months	Persons Case1	Persons Case 2	Persons Case 3
January			
February			
March	H		
April		H	
June			H
July			
August	I		
September		I	
December			I

G was born just before C and just after E who was born in the month having 30 days, so case 3 is ruled out here.

Months	Persons Case1	Persons Case 2	~~Persons Case 3~~
January			
February			
March	H		
April	E	H	
June	G	E	~~H~~
July	C	G	
August	I	C	
September		I	
December			~~I~~

Number of persons born after B is one more than the number of persons born between D and A who was not born in the month having odd number of days, case 2 is eliminate here and one more case added – case 1a.

Months	Persons Case1	~~Persons Case 2~~	Persons Case1a
January	D		D
February	A	~~A~~	B
March	H		H
April	E	~~H~~	E
June	G	~~E~~	G
July	C	~~G~~	C
August	I	~~C~~	I
September	B	~~I~~	A
December			

Number of persons were born between A and H is same as the number of persons were born between B and F, so case 1a is cancelled here and the final arrangement is:

Months	Persons
January	D
February	A
March	H
April	E
June	G
July	C
August	I
September	B
December	F

H was born in March.

S6. Ans.(d)
Sol. There are five such numbers (% **5** P, @ **4** O, & **7** K, * **7** O, $ **2** P)

S7. Ans.(e)
Sol. Fourth number from left end = 7 and fourth number from right end = 3
Thus, the required sum = 10.

S8. Ans.(a)
Sol. 22nd element from the right end = K
Thus, 2nd symbol to the left of K = @

S9. Ans.(e)
Sol. There are no such vowels.

S10. Ans.(a)
Sol. There are three such pairs.

S11. Ans.(b)
Sol. Q scored more runs than only two batsmen.

> > > > Q > >

R scored just more runs than V and just less runs than S who scored less runs than P.

P > S > R > V > Q > >

T scored more runs than U. Thus, the final arrangement is:

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

S scored 2nd highest runs.

S12. Ans.(c)
Sol. Q scored more runs than only two batsmen.

> > > > Q > >

R scored just more runs than V and just less runs than S who scored less runs than P.

P > S > R > V > Q > >

T scored more runs than U. Thus, the final arrangement is:

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

Four batsmen scored less runs than R.

S13. Ans.(b)
Sol. More than four boxes are kept between the box S and box Q which is kept below the box numbered as 4. There are three possible cases: -

Shelves	Boxes Case 1	Boxes Case 2	Boxes Case 3
8	S		S
7		S	
6			
5			
4			
3			
2	Q		
1		Q	Q

One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q, so case 2 and case 3 are ruled out here because there is no place below box Q for box D.

Shelves	Boxes Case 1	~~Boxes Case 2~~	~~Boxes Case 3~~
8	S		~~S~~
7		~~S~~	
6	T/X		~~T/X~~
5		~~T/X~~	
4	T/X		~~T/X~~
3		~~T/X~~	
2	Q		
1	D	~~Q~~	~~Q~~

Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to the box T. Thus, the final arrangement is:

Shelves	Boxes
8	S
7	M
6	T
5	C
4	X
3	W
2	Q
1	D

One box is kept above box M.

S14. Ans.(d)

Sol. More than four boxes are kept between the box S and box Q which is kept below the box numbered as 4. There are three possible cases: -

Shelves	Boxes Case 1	Boxes Case 2	Boxes Case 3
8	S		S
7		S	
6			
5			
4			
3			
2	Q		
1		Q	Q

One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q, so case 2 and case 3 are ruled out here because there is no place below box Q for box D.

Shelves	Boxes Case 1	~~Boxes Case 2~~	~~Boxes Case 3~~
8	S		~~S~~
7		~~S~~	
6	T/X		~~T/X~~
5		~~T/X~~	
4	T/X		~~T/X~~
3		~~T/X~~	
2	Q		
1	D	~~Q~~	~~Q~~

Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to the box T. Thus, the final arrangement is:

Shelves	Boxes
8	S
7	M
6	T
5	C
4	X
3	W
2	Q
1	D

Box Q is kept three places below box C.

S15. Ans.(c)

Sol. More than four boxes are kept between the box S and box Q which is kept below the box numbered as 4. There are three possible cases: -

Shelves	Boxes Case 1	Boxes Case 2	Boxes Case 3
8	S		S
7		S	
6			
5			
4			
3			
2	Q		
1		Q	Q

One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q, so case 2 and case 3 are ruled out here because there is no place below box Q for box D.

Shelves	Boxes Case 1	~~Boxes Case 2~~	~~Boxes Case 3~~
8	S		~~S~~
7		~~S~~	
6	T/X		~~T/X~~
5		~~T/X~~	
4	T/X		~~T/X~~
3		~~T/X~~	
2	Q		
1	D	~~Q~~	~~Q~~

Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to the box T. Thus, the final arrangement is:

Shelves	Boxes
8	S
7	M
6	T
5	C
4	X
3	W
2	Q
1	D

Except box S, all are kept on an even numbered box.

S16. Ans.(c)

Sol. More than four boxes are kept between the box S and box Q which is kept below the box numbered as 4. There are three possible cases: -

Shelves	Boxes Case 1	Boxes Case 2	Boxes Case 3
8	S		S
7		S	
6			
5			
4			
3			
2	Q		
1		Q	Q

One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q, so case 2 and case 3 are ruled out here because there is no place below box Q for box D.

Shelves	Boxes Case 1	~~Boxes Case 2~~	~~Boxes Case 3~~
8	S		~~S~~
7		~~S~~	
6	T/X		~~T/X~~
5		~~T/X~~	
4	T/X		~~T/X~~
3		~~T/X~~	
2	Q		
1	D	~~Q~~	~~Q~~

Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to the box T. Thus, the final arrangement is:

Shelves	Boxes
8	S
7	M
6	T
5	C
4	X
3	W
2	Q
1	D

Combination in option (c) is not correct.

S17. Ans.(a)

Sol. More than four boxes are kept between the box S and box Q which is kept below the box numbered as 4. There are three possible cases: -

Shelves	Boxes Case 1	Boxes Case 2	Boxes Case 3
8	S		S
7		S	
6			
5			
4			
3			
2	Q		
1		Q	Q

One box is kept between box T and box X and none of them is kept adjacent to box S and box Q. Box D is kept below box Q, so case 2 and case 3 are ruled out here because there is no place below box Q for box D.

Shelves	Boxes Case 1	~~Boxes Case 2~~	~~Boxes Case 3~~
8	S		~~S~~
7		~~S~~	
6	T/X		~~T/X~~
5		~~T/X~~	
4	T/X		~~T/X~~
3		~~T/X~~	
2	Q		
1	D	~~Q~~	~~Q~~

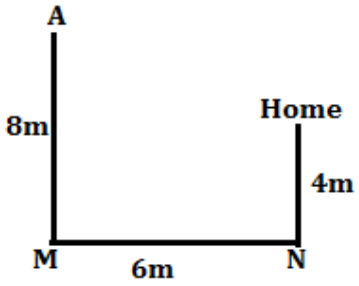
Sum of the box number of box C and box W is equal to the box number of box S. More than one box is kept between box W and box M which is kept adjacent to the box T. Thus, the final arrangement is:

Shelves	Boxes
8	S
7	M
6	T
5	C
4	X
3	W
2	Q
1	D

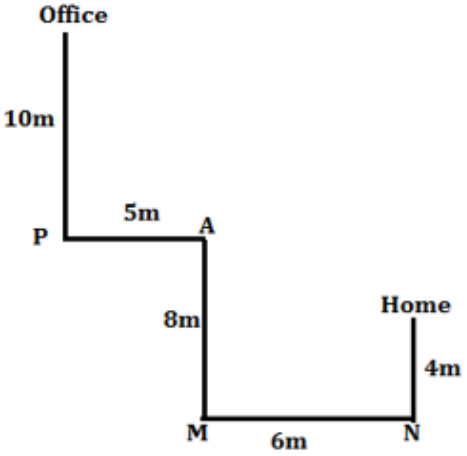
Box M is placed at 7th numbered box.

S18. Ans.(c)

Sol. A person is going to his office from his home. He walks 4m in south from his home and reaches at point N. Now he takes a right turn and reaches at point M after walking 2m more than his previous distance which means he will walk 6m and reaches at point M. From point M he walks 8m north and reaches at point A.



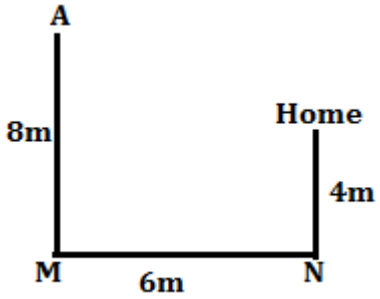
Then he takes a left turn and walks 5m to reach point P. Now he takes right turn and walks 10m to reach his office (destination).



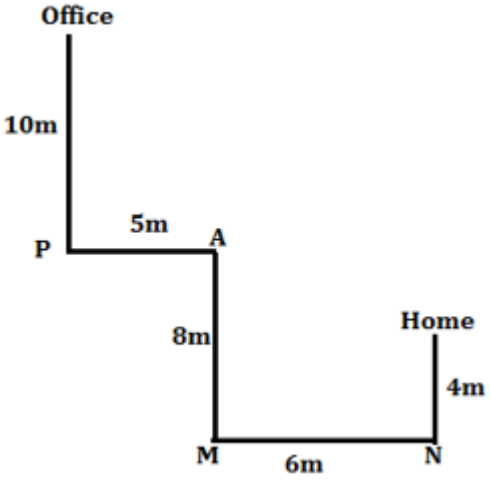
Person's office is in northwest direction with respect to his home.

S19. Ans.(a)

Sol. A person is going to his office from his home. He walks 4m in south from his home and reaches at point N. Now he takes a right turn and reaches at point M after walking 2m more than his previous distance which means he will walk 6m and reaches at point M. From point M he walks 8m north and reaches at point A.



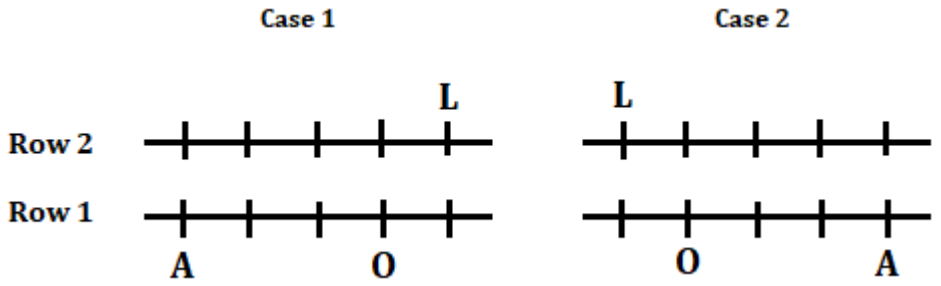
Then he takes a left turn and walks 5m to reach point P. Now he takes right turn and walks 10m to reach his office (destination).



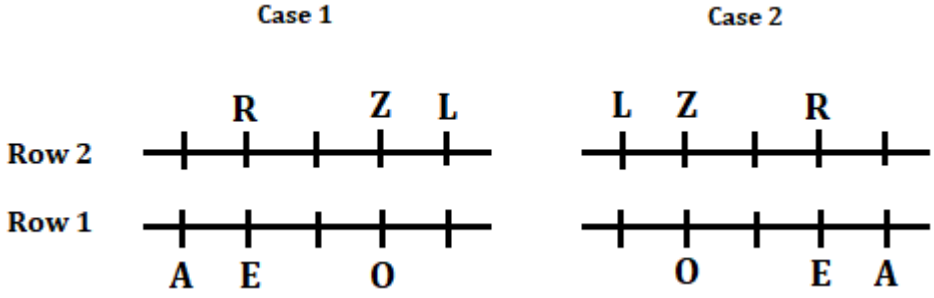
$AN=\sqrt{8^2 + 6^2} = \sqrt{64 + 36} = \sqrt{100} = 10m$

S20. Ans.(b)

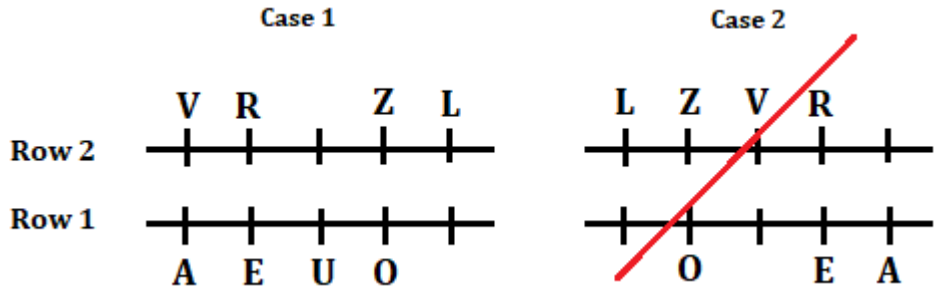
Sol. A sits diagonally opposite to L. There are two possible cases. Two persons sit between A and O.



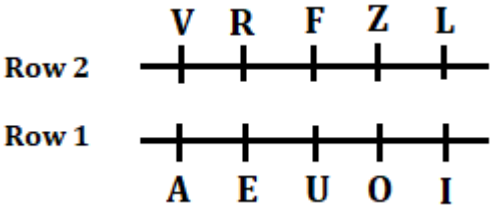
The number of persons sit to the right of O is same as the number of persons sit to the left of Z. E does not sit adjacent to O but sits opposite to R.



V sits just right of R. The person who faces U sits second to the left of V. Case 2 will eliminate here.



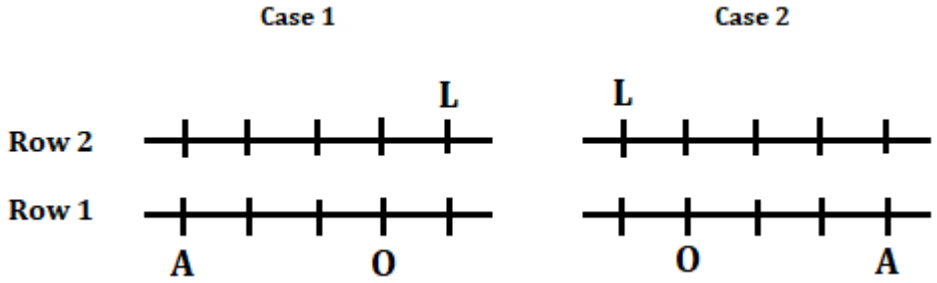
Now, the remaining person in row 1 is I and in row 2 is F. So, the final arrangement is:



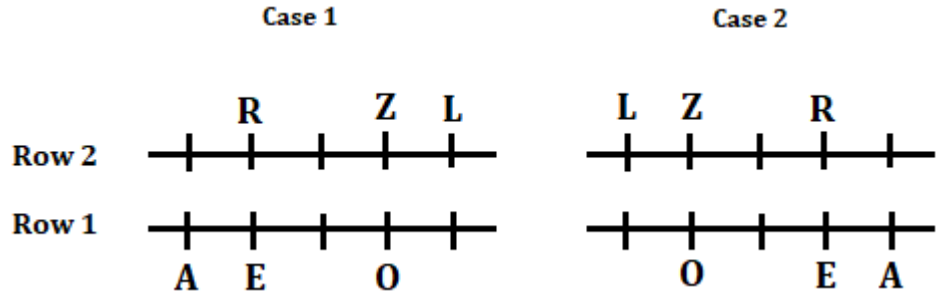
L sits second to the left of F.

S21. Ans.(a)

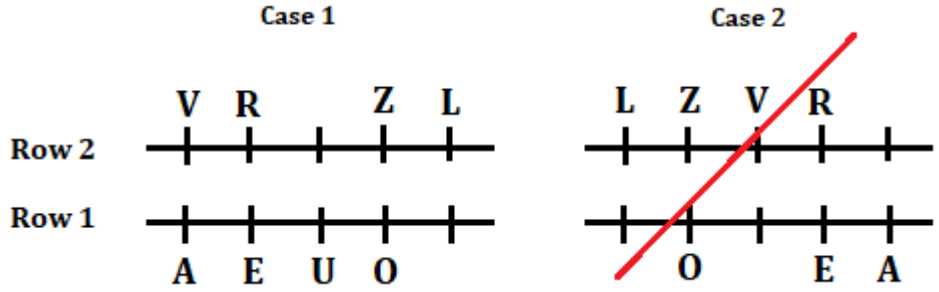
Sol. A sits diagonally opposite to L. There are two possible cases. Two persons sit between A and O.



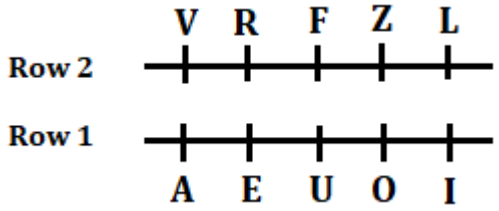
The number of persons sit to the right of O is same as the number of persons sit to the left of Z. E does not sit adjacent to O but sits opposite to R.



V sits just right of R. The person who faces U sits second to the left of V. Case 2 will eliminate here.



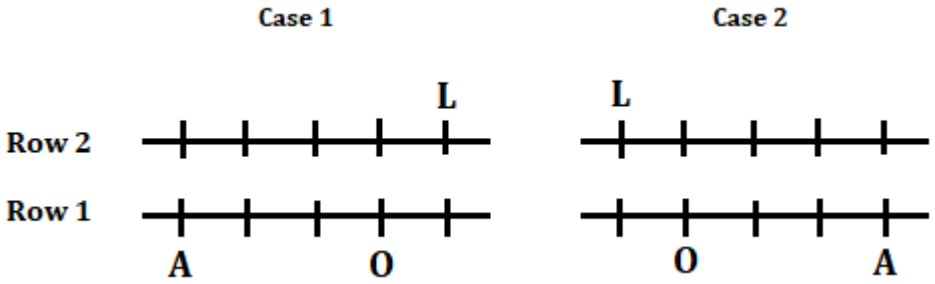
Now, the remaining person in row 1 is I and in row 2 is F. So, the final arrangement is:



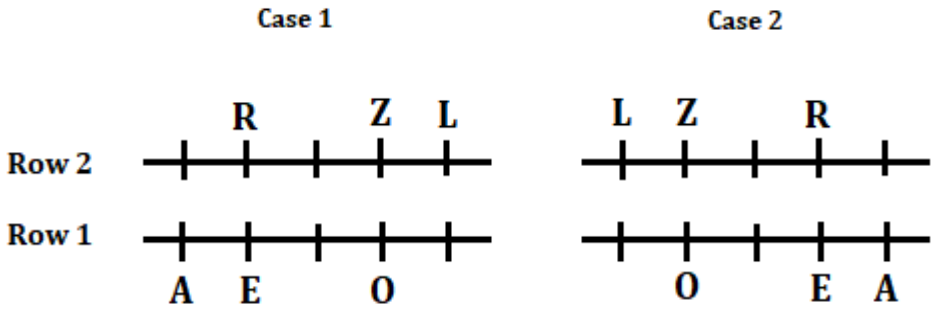
Z sits opposite to O.

S22. Ans.(e)

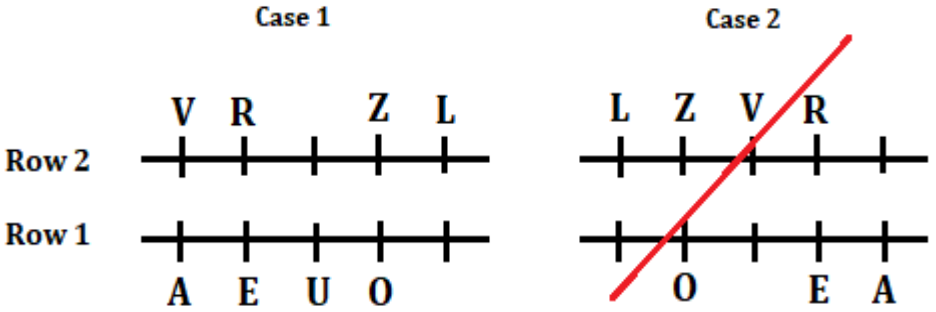
Sol. A sits diagonally opposite to L. There are two possible cases. Two persons sit between A and O.



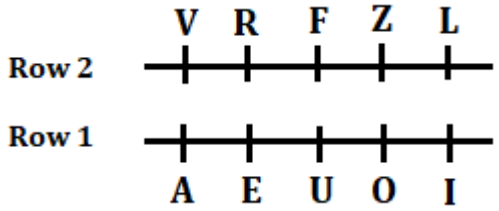
The number of persons sit to the right of O is same as the number of persons sit to the left of Z. E does not sit adjacent to O but sits opposite to R.



V sits just right of R. The person who faces U sits second to the left of V. Case 2 will eliminate here.



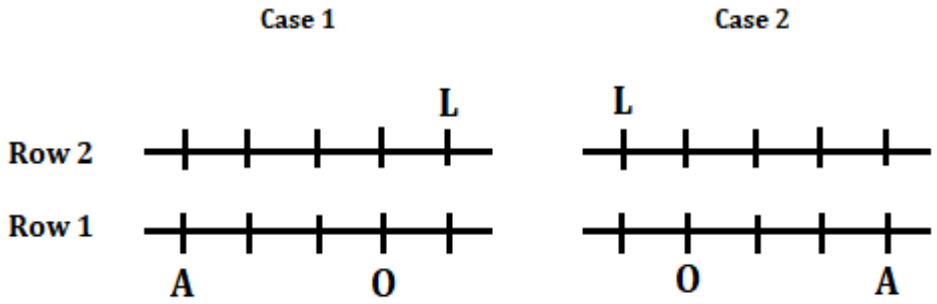
Now, the remaining person in row 1 is I and in row 2 is F. So, the final arrangement is:



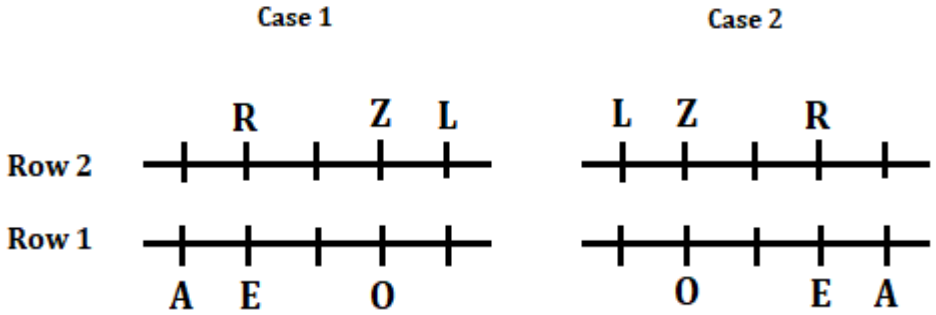
All the given statements are correct.

S23. Ans.(d)

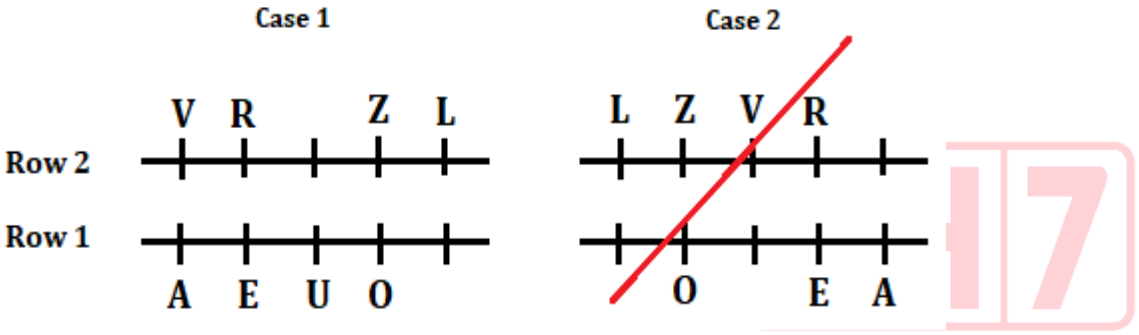
Sol. A sits diagonally opposite to L. There are two possible cases. Two persons sit between A and O.



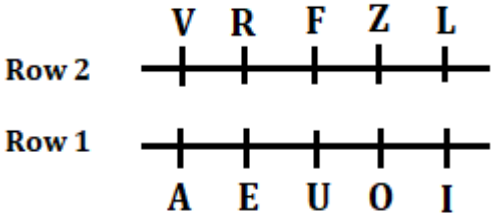
The number of persons sit to the right of O is same as the number of persons sit to the left of Z. E does not sit adjacent to O but sits opposite to R.



V sits just right of R. The person who faces U sits second to the left of V. Case 2 will eliminate here.



Now, the remaining person in row 1 is I and in row 2 is F. So, the final arrangement is:



E faces the person who sits third to the right of L.

S24. Ans.(d)

Sol. Not more than three persons are senior to U. U is neither designated as chairman nor as general manager. So, here we get two possible cases. Two persons are designated between U and R. V is just senior to R.

	CASE 1	CASE 2
Designations	**Persons**	**Persons**
Chairman		
GM		
DGM		U
AGM	U	
Manager		V
AM	V	R
PO	R	
Clerk		

The number of persons junior to R is one less than the number of persons senior to T. S is just senior to P. Two persons are designated between P and Q. Here case 2 gets eliminated because no space left for Q.

	CASE 1	~~CASE 2~~
Designations	**Persons**	~~**Persons**~~
Chairman	S	
GM	P	
DGM	T	~~U~~
AGM	U	~~T~~
Manager	Q	~~V~~
AM	V	~~R~~
PO	R	
Clerk		

So, the remaining person W is clerk and case1 shows the final arrangement:

Designations	**Persons**
Chairman	S
GM	P
DGM	T
AGM	U
Manager	Q
AM	V
PO	R
Clerk	W

Seven persons are senior to W who is just junior to R.

S25. Ans.(c)

Sol. Not more than three persons are senior to U. U is neither designated as chairman nor as general manager. So, here we get two possible cases. Two persons are designated between U and R. V is just senior to R.

	CASE 1	CASE 2
Designations	**Persons**	**Persons**
Chairman		
GM		
DGM		U
AGM	U	
Manager		V
AM	V	R
PO	R	
Clerk		

The number of persons junior to R is one less than the number of persons senior to T. S is just senior to P. Two persons are designated between P and Q. Here case 2 gets eliminated because no space left for Q.

	CASE 1	~~CASE 2~~
Designations	**Persons**	~~**Persons**~~
Chairman	S	
GM	P	
DGM	T	~~U~~
AGM	U	~~T~~
Manager	Q	~~V~~
AM	V	~~R~~
PO	R	
Clerk		

So, the remaining person W is clerk and case1 shows the final arrangement:

Designations	Persons
Chairman	S
GM	P
DGM	T
AGM	U
Manager	Q
AM	V
PO	R
Clerk	W

Q is designated as Manager.

S26. Ans.(b)

Sol. Not more than three persons are senior to U. U is neither designated as chairman nor as general manager. So, here we get two possible cases. Two persons are designated between U and R. V is just senior to R.

	CASE 1	CASE 2
Designations	**Persons**	**Persons**
Chairman		
GM		
DGM		U
AGM	U	
Manager		V
AM	V	R
PO	R	
Clerk		

The number of persons junior to R is one less than the number of persons senior to T. S is just senior to P. Two persons are designated between P and Q. Here case 2 gets eliminated because no space left for Q.

	CASE 1	~~CASE 2~~
Designations	**Persons**	~~**Persons**~~
Chairman	S	
GM	P	
DGM	T	~~U~~
AGM	U	~~T~~
Manager	Q	~~V~~
AM	V	~~R~~
PO	R	
Clerk		

So, the remaining person W is clerk and case1 shows the final arrangement:

Designations	Persons
Chairman	S
GM	P
DGM	T
AGM	U
Manager	Q
AM	V
PO	R
Clerk	W

Statement (b) is true.

S27. Ans.(e)

Sol. Not more than three persons are senior to U. U is neither designated as chairman nor as general manager. So, here we get two possible cases. Two persons are designated between U and R. V is just senior to R.

	CASE 1	CASE 2
Designations	**Persons**	**Persons**
Chairman		
GM		
DGM		U
AGM	U	
Manager		V
AM	V	R
PO	R	
Clerk		

The number of persons junior to R is one less than the number of persons senior to T. S is just senior to P. Two persons are designated between P and Q. Here case 2 gets eliminated because no space left for Q.

	CASE 1	~~CASE 2~~
Designations	**Persons**	~~**Persons**~~
Chairman	S	
GM	P	
DGM	T	~~U~~
AGM	U	~~T~~
Manager	Q	~~V~~
AM	V	~~R~~
PO	R	
Clerk		

So, the remaining person W is clerk and case1 shows the final arrangement:

Designations	Persons
Chairman	S
GM	P
DGM	T
AGM	U
Manager	Q
AM	V
PO	R
Clerk	W

Two designations are between the two persons given in all options except in option (e).

S28. Ans.(b)
Sol. Given words – DETAILED
1st, 3rd, 4th and 7th letter from the left end = D, T, A and E respectively
Meaningful word – DATE
Thus, the 3rd letter of the meaningful word = T

S29. Ans.(b)
Sol.
435 654 723 892 345
345 435 654 723 892

S30. Ans.(b)
Sol.
435 654 723 892 345
534 456 327 298 543

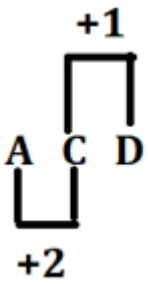
S31. Ans.(c)
Sol.
435 654 723 892 345
345 564 273 982 435

S32. Ans.(d)
Sol.
435 654 723 892 345
453 645 732 829 354

S33. Ans.(a)
Sol. 4+2=6

S34. Ans.(a)
Sol.
4 5 7 6 8 9 3 7 1 2
1 2 3 4 5 6 7 7 8 9

S35. Ans.(b)
Sol.



S36. Ans.(c)
Sol.

$\frac{55}{100} \times 1400 + ?^2 = 1728-282$

$?^2 = 676$

$? = 26$

S37. Ans.(b)
Sol.

$\frac{42}{100} \times 500 + \frac{22.5}{100} \times ? = 426$

$\frac{22.5}{100} \times ? = 216$

$? = 960$

S38. Ans.(a)
Sol.

$? + 2197 = 3481 - 681$

$? = 2800 - 2197$

$? = 603$

S39. Ans.(d)
Sol.

$\frac{540}{?} + 450 = \frac{15}{100} \times 3200$

$\frac{540}{?} = 480 - 450$

$? = 18$

S40. Ans.(c)
Sol.

$? + \frac{63}{4} - \frac{10}{3} \times \frac{15}{4} = 5$

$? = 5 - \frac{63}{4} + \frac{25}{2}$

$? = \frac{7}{4}$

$? = 1.75$

S41. Ans.(d)
Sol.

$? = \frac{\sqrt{400} \times 42}{7}$

$= 20 \times 6 = 120$

S42. Ans.(d)
Sol.

$\frac{?}{5} = \frac{60 - 40}{2}$

$\Rightarrow ? = 5 \times 10$

$= 50$

S43. Ans.(c)
Sol.

$\sqrt{?} = \frac{621}{27} \times 2 - 37$

$= 46 - 37 = 9$

$\Rightarrow ? = 9 \times 9 = 81$

S44. Ans.(d)
Sol.

$\frac{250 \times 36}{100} \times \frac{50 \times 18}{100} = ? + 10$

$\Rightarrow 810 = ? + 10$

$\therefore ? = 810 - 10 = 800$

S45. Ans.(b)
Sol.

$\frac{49 - 36}{26} = \frac{18}{?}$

$\Rightarrow \frac{13}{26} = \frac{18}{?}$

$\Rightarrow \frac{1}{2} = \frac{18}{?}$

$\Rightarrow ? = 2 \times 18$

$= 36$

S46. Ans.(b)
Sol.

Required ratio $= 1800 \times \frac{40}{100} : 1500 \times \frac{30}{100} = 8 : 5$

S47. Ans.(d)
Sol.

Required average $= \frac{1200 \times \frac{30}{100} + 1500 \times \frac{25}{100} + 1800 \times \frac{35}{100} + 2500 \times \frac{45}{100}}{4} = \frac{360 + 375 + 630 + 1125}{4}$

$\frac{2490}{4} = 622.5$

S48. Ans.(e)
Sol.

Total number of students in commerce stream from C = $800 \times \frac{42}{100} = 336$

Total number of students in science stream from A =$1200 \times \frac{55}{100} = 660$

Required percentage= $\frac{660-336}{660} \times 100 = 49.09\% \approx 49\%$

S49. Ans.(c)
Sol.

Required difference =$1500 \times \frac{30}{100} + 2500 \times \frac{35}{100} - 1200 \times \frac{(30+15)}{100}$

$= 450 + 875 - 540 = 785$

S50. Ans.(b)
Sol.

Required sum = $1800 \times \frac{40}{100} + 800 \times \frac{34}{100}$

$= 720 + 272 = 992$

S51. Ans.(b)
Sol.

2×1=2

2×2=4

4×4=16

16×8=128

128×16=2048

S52. Ans.(a)
Sol.

$14 + 1^2 = 15$

$15 - 2^2 = 11$

$11 + 3^2 = 20$

$20 - 4^2 = 4$

$4 + 5^2 = 29$

S53. Ans.(c)
Sol.

8×1-1=7

7×2+1=15

15×3-1=44

44×4+1=177

177×5-1=884

S54. Ans.(e)

Sol.

12×0.5=6

6×1.5=9

9×2.5=22.5

22.5×3.5=78.75

78.75×4.5=354.375

S55. Ans.(b)

Sol.

4800÷2=2400

2400×1=2400

2400÷2=1200

1200×1=1200

1200÷2=600

S56. Ans.(c)

Sol. Let the total students in A, B & C be x, y & z respectively

y + z = 720 ----------(i)

x + z = 610 ----------(ii)

x + y = 650 ----------(iii)

On adding (i), (ii) & (iii) and then dividing by 2

x+ y + z = 990 ----------(iv)

from (i) & (iv)

x = 270

from (ii) & (iv)

y = 380

from (iii) & (iv)

z = 340

Boys in A = $\frac{270\times5}{9} = 150$

Girls in A = $270 \times \frac{4}{9} = 120$

Boys in B = $\frac{380\times9}{19} = 180$

Girls in B = $\frac{380\times10}{19} = 200$

Boys in C = $\frac{180}{9} \times 8 = 160$

Girls in C = 340 − 160 = 180

School	Boys	Girls	Total
A	150	120	270
B	180	200	380
C	160	180	340

Required difference = (160 + 180) – (150 + 180) = 10

S57. Ans.(a)

Sol. Let the total students in A, B & C be x, y & z respectively

y + z = 720 ----------(i)

x + z = 610 ----------(ii)

x + y = 650 ----------(iii)

On adding (i), (ii) & (iii) and then dividing by 2

x+ y + z = 990 ----------(iv)

from (i) & (iv)

x = 270

from (ii) & (iv)

y = 380

from (iii) & (iv)

z = 340

$\text{Boys in A} = \frac{270\times5}{9} = 150$

$\text{Girls in A} = 270 \times \frac{4}{9} = 120$

$\text{Boys in B} = \frac{380\times9}{19} = 180$

$\text{Girls in B} = \frac{380\times10}{19} = 200$

$\text{Boys in C} = \frac{180}{9} \times 8 = 160$

Girls in C = 340 − 160 = 180

School	Boys	Girls	Total
A	150	120	270
B	180	200	380
C	160	180	340

$\text{Required percentage} = \frac{(120+180)-(150+120)}{(120+180)} \times 100 = 10\ \%$

S58. Ans.(e)

Sol. Let the total students in A, B & C be x, y & z respectively

y + z = 720 ----------(i)

x + z = 610 ----------(ii)

x + y = 650 ----------(iii)

On adding (i), (ii) & (iii) and then dividing by 2

x+ y + z = 990 ----------(iv)

from (i) & (iv)

x = 270

from (ii) & (iv)

y = 380

from (iii) & (iv)

z = 340

Boys in A = $\frac{270\times5}{9} = 150$

Girls in A = $270 \times \frac{4}{9} = 120$

Boys in B = $\frac{380\times9}{19} = 180$

Girls in B = $\frac{380\times10}{19} = 200$

Boys in C = $\frac{180}{9} \times 8 = 160$

Girls in C = 340 − 160 = 180

School	Boys	Girls	Total
A	150	120	270
B	180	200	380
C	160	180	340

Required percentage = $\frac{\left(\frac{180+200}{2}\right)}{160} \times 100 = \frac{190}{160} \times 100 = 118.75\%$

S59. Ans.(d)

Sol. Let the total students in A, B & C be x, y & z respectively

y + z = 720 ----------(i)

x + z = 610 ----------(ii)

x + y = 650 ----------(iii)

On adding (i), (ii) & (iii) and then dividing by 2

x+ y + z = 990 ----------(iv)

from (i) & (iv)

x = 270

from (ii) & (iv)

y = 380

from (iii) & (iv)

z = 340

Boys in A = $\frac{270\times5}{9} = 150$

Girls in A = $270 \times \frac{4}{9} = 120$

Boys in B = $\frac{380\times9}{19} = 180$

Girls in B = $\frac{380\times10}{19} = 200$

Boys in C = $\frac{180}{9} \times 8 = 160$

Girls in C = 340 − 160 = 180

School	Boys	Girls	Total
A	150	120	270
B	180	200	380
C	160	180	340

Required ratio = $\frac{(180+160)}{(120+200)} = \frac{340}{320} = 17:16$

S60. Ans.(b)

Sol. Let the total students in A, B & C be x, y & z respectively

y + z = 720 ----------(i)

x + z = 610 ----------(ii)

x + y = 650 ----------(iii)

On adding (i), (ii) & (iii) and then dividing by 2

x+ y + z = 990 ----------(iv)

from (i) & (iv)

x = 270

from (ii) & (iv)

y = 380

from (iii) & (iv)

z = 340

Boys in A = $\frac{270\times5}{9} = 150$

Girls in A = $270 \times \frac{4}{9} = 120$

Boys in B = $\frac{380\times9}{19} = 180$

Girls in B = $\frac{380\times10}{19} = 200$

Boys in C = $\frac{180}{9} \times 8 = 160$

Girls in C = 340 − 160 = 180

School	Boys	Girls	Total
A	150	120	270
B	180	200	380
C	160	180	340

Total students from A who participated in NCC = 150 × 0.6 + 120 × 0.8=186

Required percentage = $\frac{186}{270} \times 100 = 68\frac{8}{9}\%$

S61. Ans.(a)

Sol.

Total cost price = $5{,}840 + 360 = Rs.\,6{,}200$

Profit = $6{,}500 - 6{,}200 = Rs.\,300$

Profit % = $\frac{300}{6{,}200} \times 100 \approx 5\%$

S62. Ans.(d)

Sol. Let the present age of Mansi and Mayank respectively be 2x+5 and 3x+5 respectively

According to question

$\frac{2x+5+5}{3x+5+5} = \frac{6}{7}$

$\frac{2x+10}{3x+10} = \frac{6}{7}$

$14x + 70 = 18x + 60$

$10 = 4x$

$x = \frac{10}{4} = 2.5$

Mansi age after 4 years = $2x + 5 + 4 = 2 \times 2.5 + 9 = 14\ years$

S63. Ans.(b)

Sol.

Let capacity of the tank (LCM of 18 & 12) = 36 units

Efficiency of pipe P and Pipe P & Q together is 2 units/min and 3 units/min respectively.

Efficiency of pipe R = $\frac{180}{100} \times (3-2) = 1.8$ units/min

Required time = $\frac{36}{1.8} = 20$ min

S64. Ans.(c)

Sol. Let the initial investment of P, Q and R be Rs. 3x,5x,and 1x

Their profit-sharing ratio

3x×5+6x×7:5x×5+3x×7:1x×12

57x:46x:12x

57x+46x+12x=3,450

115x = 3,450

Profit earned by R = $\frac{3,450}{115x} \times 12x = Rs.360$

S65. Ans.(e)

Sol.

Circumference of the semicircle = $r(\pi + 2)$

$r\left(\frac{22}{7}+2\right) = 54$

$r\left(\frac{36}{7}\right) = 54$

$r = \frac{21}{2} cm$

Diameter = $\frac{21}{2} \times 2 = 21cm$

Side of square = $21 \times \frac{140}{100} = 29.4\ cm$

Perimeter of the square = $4 \times side$

$4 \times 29.4 = 117.6\ cm$

S66. Ans.(c)

Sol.

Let the speed of current be $x\ km/h$

And speed of boat in still water be $4x\ km/h$

$\frac{120}{5x}+\frac{120}{3x} = 32$

$\frac{24}{x}+\frac{40}{x} = 32$

$\frac{64}{x} = 32$

$x = 2$

So, speed of current be $2\ km/h$

And speed of boat in still water $8\ km/h$

Time taken by boat to travels 80 km downstream = $\frac{80}{2+8} = 8\ hours$

S67. Ans.(b)

Sol.

Let the speed of the train be $=x\ km/h$

40% of its usual speed $= x \times \frac{40}{100} = \frac{2x}{5}\ km/h$

Train crosses a pole in 4 seconds

$\frac{L}{x} = 4$

$L = 4x \ldots\ldots (i)$

Train crosses a 320 meter long platform in 20 seconds

$$\frac{L + 320}{\frac{2x}{5}} = 20$$

$4x + 320 = 20 \times \frac{2x}{5}$ (L value from (i))

$4x + 320 = 8x$

$$x = \frac{320}{4}$$

$x = 80$

x value put in (i)

$L = 4 \times 80 = 320\ meters$

S68. Ans.(a)

Sol.

Let amount invested in simple interest = $Rs.\ 100x$

Then, S.I. = $Rs.\ 80x$, time = 8 years and rate of interest = R%

$$80x = \frac{100x \times R \times 8}{100}$$

$R = 10\%$

Compound interest of Rs. 15,000 for 3 years

1st year C.I. =10%

2nd year C.I. =10%+1%=11%

3rd year C.I. = 10%+1%+1.1%=12.1%

Total C.I. =33.1% of 15,000

$= 33.1 \times \frac{15000}{100} = Rs.\ 4{,}965$

S69. Ans.(d)

Sol.

Total work (LCM of 15,10,30) = 30 units/day

A's efficiency $= \frac{30}{15} = 2\ units/day$

B's efficiency $= \frac{30}{10} = 3\ units/day$

C's efficiency $= \frac{30}{30} = 1\ units/day$

According to ques.

$= 2u \times 2 + 6u \times 1 = 10\ uints\ work\ done\ in\ 3\ days$

So, 30 units work done in 9 days.

S70. Ans.(b)
Sol.

Amount of wine after three operations = $[30\left(1-\frac{3}{30}\right)^3]\ liters$

$= (30 \times \frac{9}{10} \times \frac{9}{10} \times \frac{9}{10}) = 21.87$ liters

S71. Ans.(e)
Sol. The correct choice is option (e) which can be inferred from the first paragraph which mentions, "The Governor of the Reserve Bank of India, in February, highlighted two things. First, "private cryptocurrencies are a big threat to our financial and macroeconomic stability". Second, "these cryptocurrencies have no underlying (asset)... not even a tulip"."

S72. Ans.(b)
Sol. The correct choice is option (b) which can be inferred from the first paragraph which mentions," Cryptocurrency will be discouraged via taxation and capital gains provisions."

S73. Ans.(d)
Sol. The correct choice is option (d) which can be inferred from the first paragraph which mentions," Clearly, statements from the RBI indicate a growing worry since the proliferation of cryptos threatens the RBI's place in the economy's financial system. This threat emerges from the decentralised character of cryptos based on blockchain technology which central banks cannot regulate and which enables enterprising private entities to float cryptos which can function as assets and money."

S74. Ans.(c)
Sol. The correct choice is option (c) which can be inferred from the first paragraph which mentions," A CBDC will not solve the RBI's problem since it can only be a fiat currency and not a crypto. However, cryptos can function as money."

S75. Ans.(d)
Sol. The correct choice is option (d) which can be inferred from the first paragraph which mentions," Ukraine has been a centre for cryptos trading due to its lax rules and is using them to raise funds for its war with Russia. "

S76. Ans.(a)
Sol. 'Let the genie out of the bottle' means 'to do something that causes a situation to change, so that it is no longer possible to go back to an earlier state'.

S77. Ans.(c)
Sol. 'Futile' is a synonym of 'worthless'
Worthless means having no real value or use.
Repudiate means refuse to accept; reject.
Bog means be or become stuck in mud or wet ground.
Futile means incapable of producing any useful result; pointless.
attrition means the process of reducing something's strength or effectiveness through sustained attack or pressure.

S78. Ans.(a)
Sol. 'Wither' is an antonym of 'proliferation'.
Proliferation means rapid increase in the number or amount of something.
wither means fall into decay or decline.
incursion means an invasion or attack, especially a sudden or brief one.
inquest means a discussion or investigation into something that has happened, especially something undesirable.
colossal means extremely large or great.

S79. Ans.(a)
Sol. 'signify' is a synonym of 'indicate'.
Indicate- to serve as a sign or symptom of.
(a) Signify: Signify means to convey a meaning or message, typically through signs, gestures, or symbols.
(b) Declare: Declare means to formally or openly announce, proclaim, or state something.
(c) Delineate: Delineate means to describe or portray something with precision or detail.
(d) Proclaim: Proclaim means to announce or make known publicly or officially.

S80. Ans.(a)
Sol. "infers" is an antonym of "derives".
Derives- to form an opinion or reach a conclusion through reasoning and information
(a) Signify: Signify means to convey a meaning or message, typically through signs, gestures, or symbols.
(b) Declare: Declare means to formally or openly announce, proclaim, or state something.
(c) Delineate: Delineate means to describe or portray something with precision or detail.
(d) Proclaim: Proclaim means to announce or make known publicly or officially.

S81. Ans.(b)
Sol. Among the given options, sentence (C) best defines the theme of the given paragraph. Now, sentence (C) will be followed by sentence (A) as it suggests the alternatives to meet the needs of India's energy appetite. Now, sentence (A) will be followed by sentence (E) which highlights the importance of hydrogen for India. Now, sentence (E) will be followed by sentence (B) as it states why hydrogen is touted as India's gateway to energy independence. Finally, sentence (B) will be followed by sentence (D) which will form the last sentence of the given paragraph as it further highlights the importance of hydrogen. Thus, we can infer that the correct rearrangement of the given sentences would be CAEBD.

S82. Ans.(d)
Sol. Among the given options, sentence (C) best defines the theme of the given paragraph. Now, sentence (C) will be followed by sentence (A) as it suggests the alternatives to meet the needs of India's energy appetite. Now, sentence (A) will be followed by sentence (E) which highlights the importance of hydrogen for India. Now, sentence (E) will be followed by sentence (B) as it states why hydrogen is touted as India's gateway to energy independence. Finally, sentence (B) will be followed by sentence (D) which will form the last sentence of the given paragraph as it further highlights the importance of hydrogen. Thus, we can infer that the correct rearrangement of the given sentences would be CAEBD.

S83. Ans.(b)

Sol. Among the given options, sentence (C) best defines the theme of the given paragraph. Now, sentence (C) will be followed by sentence (A) as it suggests the alternatives to meet the needs of India's energy appetite. Now, sentence (A) will be followed by sentence (E) which highlights the importance of hydrogen for India. Now, sentence (E) will be followed by sentence (B) as it states why hydrogen is touted as India's gateway to energy independence. Finally, sentence (B) will be followed by sentence (D) which will form the last sentence of the given paragraph as it further highlights the importance of hydrogen. Thus, we can infer that the correct rearrangement of the given sentences would be CAEBD.

S84. Ans.(d)

Sol. Among the given options, sentence (C) best defines the theme of the given paragraph. Now, sentence (C) will be followed by sentence (A) as it suggests the alternatives to meet the needs of India's energy appetite. Now, sentence (A) will be followed by sentence (E) which highlights the importance of hydrogen for India. Now, sentence (E) will be followed by sentence (B) as it states why hydrogen is touted as India's gateway to energy independence. Finally, sentence (B) will be followed by sentence (D) which will form the last sentence of the given paragraph as it further highlights the importance of hydrogen. Thus, we can infer that the correct rearrangement of the given sentences would be CAEBD.

S85. Ans.(c)

Sol. Among the given options, sentence (C) best defines the theme of the given paragraph. Now, sentence (C) will be followed by sentence (A) as it suggests the alternatives to meet the needs of India's energy appetite. Now, sentence (A) will be followed by sentence (E) which highlights the importance of hydrogen for India. Now, sentence (E) will be followed by sentence (B) as it states why hydrogen is touted as India's gateway to energy independence. Finally, sentence (B) will be followed by sentence (D) which will form the last sentence of the given paragraph as it further highlights the importance of hydrogen. Thus, we can infer that the correct rearrangement of the given sentences would be CAEBD.

S86. Ans.(c)

Sol. The correct word for the given blank is 'emerged'

(a) passably means in a way that is just good enough; reasonably.

(b) serve means perform duties or services for (another person or an organization).

(c) emerged means move out of or away from something and become visible.

(d) retreated means move back or withdraw.

(e) staunched means stop or restrict (a flow of blood) from a wound.

S87. Ans.(e)

Sol. The correct word for the given blank is 'implemented'

(a) impeded means delay or prevent (someone or something) by obstructing them; hinder.

(b) imported means brought into a country from abroad for sale.

(c) prohibited means that has been forbidden; banned.

(d) imperilled means put at risk of being harmed, injured, or destroyed.

(e) implemented means put (a decision, plan, agreement, etc.) into effect.

S88. Ans.(a)
Sol. The correct word for the given blank is 'desperate'
(a) desperate means feeling or showing a hopeless sense that a situation is so bad as to be impossible to deal with.
(b) empathic means the ability to understand and share the feelings of another.
(c) dawdle means waste time; be slow.
(d) robust means strong and healthy; vigorous.
(e) resolution means admirably purposeful, determined, and unwavering.

S89. Ans.(c)
Sol. The correct word for the given blank is 'indicated'
(a) implicate means show (someone) to be involved in a crime.
(b) incursive means making incursions
(c) indicated means point out; show.
(d) crested means reach the top of (a hill or wave).
(e) ally means a state formally cooperating with another for a military or other purpose.

S90. Ans.(d)
Sol. The correct word for the given blank is 'temporary'
(a) dictate means state or order authoritatively.
(b) intense means of extreme force, degree, or strength.
(c) coercive means relating to or using force or threats.
(d) temporary means lasting for only a limited period of time; not permanent.
(e) imminent means about to happen.

S91. Ans.(c)
Sol. The error is in part (C). Here 'have' should be replaced with 'has' because noun 'whammy' which means 'an event with a powerful and unpleasant effect; a blow' is singular here.

S92. Ans.(c)
Sol. There is an error in part (D). Here, "have" should be replaced with "has" as the given sentence is emphasizing the phrase "rate of reduction" which is given in the singular form.

S93. Ans.(a)
Sol. There is an error in part (B). Here, "posits" should be replaced with "posit" as the concerned sentence is given in the plural form with the term "estimates" making a plural sense.

S94. Ans.(d)
Sol. There is an error in part (C). Here, "requires" should be replaced with "require" as the term "will" is a modal verb that is always followed by the base form of a verb.

S95. Ans.(e)
Sol. There is no error in any parts of the given sentence.

S96. Ans.(b)
Sol. "crumble" means to cause something to fall apart and break into many small pieces.
Thus, the sentence that has the incorrect usage of the given word is statement (B).

S97. Ans.(e)
Sol. "Egregious" means really bad or offensive. Thus, all the given sentences have the correct usage of the word.

S98. Ans.(a)
Sol. "ubiquitous" means present, appearing, or found everywhere. Thus, statement (A) does not have the correct usage of the given word.

S99. Ans.(d)
Sol. "grumble" means to complain about something in a bad-tempered way. Thus, only statement (C) has the incorrect usage of the given word.

S100. Ans.(c)
Sol. The word 'infirm' which means 'not physically or mentally strong, especially through age or illness' has been correctly used only in statement (i). In statement (ii), it should be 'steadily' and in statement (iii), it should be 'studied'. Thus, statements (ii) and (iii) have the incorrect usage of the word 'infirm'.