1. **Direction:** Read the following information carefully and answer the questions that follow:

Renewable Energy (RE) is the future. With that said, one can argue that the future has arrived, in parts at least. Worldwide acceptance towards green energy is giving the sustainable energy sector more market share every year. The growth is consistent, with each year out-performing the previous, leading renewable energy to **account for** 1/3rd of global energy capacity.

It's **fair** to state that the growth trajectory is incredible, and considering that it took only a little more than a just decade to reach this position, we could call it _____. However, the most important question is, is this satisfactory? The goal of green energy transition is to solve growing energy scarcity and reduce dependency on fossil fuels in order to move towards a fully sustainable energy landscape. Therefore, to identify success, we need to compare renewable energy growth with the current scenario.

According to WHO's estimates, currently, more than 7 million people die every year from pollution, up from 4.2 million in 2016. Fossil fuel consumption has increased globally from 94,462/twh in 2000 to 1,33,853/twh now. The rise in population (currently 7.7 billion) indicates a steady growth in energy demand worldwide. In comparison, the fact that renewable energy took a decade to become 1/3 of energy capacity is not the ideal pace, considering we might not have two more decades to wait for RE to catch up.

Source: www.forbesindia.com

Which of the following words is most similar to the word 'fair' with reference to the context of the passage?
A. Excellent
B. Reasonable
C. Coloured
D. Diligent
E. Prejudiced

2. Which of the following is similar in meaning to 'Account for'?

A. To form a particular part of something
B. To consider or regard
C. Take an opportunity
D. Doing anything risky
E. Take control of

3. Which of the following words can most appropriately fill in the blank, as given in the passage, grammatically and contextually?
It's fair to state that the growth trajectory is incredible, and considering that it took only a little more than a just decade to reach this position, we could call it _____.
A. Phenomenal
B. Affordable
C. Inadequate
D. Affective
E. Dismal

4. **Direction:** Read the given passage carefully and answer the questions that follow. Certain words are printed in bold to help you locate them while answering some of these.

Renewable Energy (RE) is the future. With that said, one can argue that the future has arrived, in parts at least. Worldwide acceptance towards green energy is giving the sustainable energy sector more market share every year. The growth is consistent, with each year out-performing the previous, leading renewable energy to **account for** 1/3rd of global energy capacity.

It's **fair** to state that the growth trajectory is incredible, and considering that it took only a little more than a just decade to reach this position, we could call it _____. However, the most important question is, is this satisfactory? The goal of green energy transition is to solve growing energy scarcity and reduce dependency on fossil fuels in order to move towards a fully sustainable energy landscape. Therefore, to identify success, we need to compare renewable energy growth with the current scenario.

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Source: www.forbesindia.com

Which of the following statement (s) if true, will support the author's claim that the rate of growth in Renewable Energy is not satisfactory?
I. The use of fossil fuels to satisfy energy needs continues to be a popular choice.
II. The issue of energy scarcity is being addressed by the use of RE in a more appropriate manner.
III. Government and private organisations are working together to develop technology which operates on RE.
A. Only I
B. Only III
C. Only II
D. Both I and II
E. Both II and III

5. Which of the following is NOT true with respect to the context of the passage?
I. Deaths due to increased pollution level have escalated in the past few years.
II. Though the rate of growth in RE is less than required, it has been consistent.
III. More market share allotment to green energy has given RE a worldwide acceptance.
A. Only II
B. Only III
C. Only I
D. Both I and II
E. Both II and III

6. Which of the following is/are the goal (s) of the green energy transition?
A. Solve the growing energy scarcity.
B. Reduce dependency on fossil fuels.
C. Reduce the death rate due to increased pollution levels.

D. To steady the growth in energy demand.
E. Both A and B

7. Which of the following can be inferred from the statement "one can argue that the future has arrived, in parts at least"?
A. The growth trajectory in the field of renewable energy is incredible.
B. The dependency on fossil fuels has significantly reduced.
C. The sustainable energy sector has identified RE to be an ideal component.
D. The pace at which RE is developing is consistent but not ideal.
E. None of the above.

8. **Direction:** In this question, two **columns I and II** and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of first half of each sentence and **Column II (D, E and F)** consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the correct option as your answer.
I.
A) Market research has shown us that
B) The government has
C) Demand has outstripped
II.
D) Supplied of qualified teachers
E) People are loyal to a brand not prices
F) Reforms are entire tax system
A. C-F
B. B-D
C. A-E
D. All of the above
E. None of the above

9. **Direction:** In this question, two **columns I and II** and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of first half of each sentence and **Column II (D, E and F)** consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the option as your answer.

I.
A) The rumours of petrol
B) The body of the camera make
C) The threat of war has adversely
II.
D) Is highly resilient for indoor use.
E) Shortage turned out to be false.
F) Impacted burns as actively.
A. B-D
B. A-E
C. C-F
D. Both A-E and B-D
E. Both B-D and C-F

10. **Direction:** In this question, two **columns I and II** and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of first half of each sentence and **Column II (D, E and F)** consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the correct option as your answer.
I.
A) Countries are willing to do
B) The effects of afforestation on
C) The scheme seeks to
II.
D) ensure a toilet in all households.
E) anything to avoid recession.
F) biodiversity need to be analysed.
A. C-F
B. B-D
C. A-E
D. All of the above
E. None of the above

11. I.
A) Traveling with co-workers is a great chance
B) It is scientifically proven that
C) A jam-packed business trip doesn't
II.
D) to get to know them on a deeper level.
E) running is beneficial for health.
F) allowed a lot of flexibility with time.
A. B-E
B. A-D
C. C-F
D. Both B-E and C-F
E. Both A-D and B-E

12. I.
A) The national unemployment rate
B) The policy emphasizes on
C) We need to teach children to
II.
D) increasing farmer's income.
E) make peace with your body.
F) be gentle towards fellow citizens.
A. C-D
B. B-F
C. A-E
D. All of the above
E. None of the above

13. I.
A) The objective of the exercise is to
B) The problems of poverty, homelessness
C) The villagers are furious about the
II.
D) and unemployment are all interconnected.
E) decision to close the railway station.
F) nurture the imagination of children.
A. B-D
B. A-F
C. C-E
D. All of the above
E. None of the above

14. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
He looked _____ for his calculator but could not find it.
A. By
B. Around
C. On
D. Up
E. Out

15. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
The admin has taken the steps to _____ the education system of the state.
A. Revamp
B. Improved
C. Increase

D. Rehearse
E. Deteriorate

16. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
This country remains poor despite _____ rich in natural resources.
A. Very
B. Of it being
C. Have been
D. It well
E. Being

17. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
Healthcare & education are one of the most _____ sectors in the country.
A. Iterative
B. Profiteer
C. Loss
D. Overcharged
E. Cashing

18. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
The navy officer was fascinated with ships since childhood and _____ be a seafarer.
A. Wished to
B. Attempt
C. Frenzy
D. Is trying
E. Wanted

19. **Direction:** A sentence with one blank is given, indicating that something has been omitted. Choose the word that best fits the blank.
If the proposal directly _____ persons without their free and informed consent, then it should be rejected.
A. Liberates
B. Harms
C. Informs
D. Raises

E. Agrees

20. **Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.
Leaders do value inquisitive (1)/ minds, but he often stifle (2)/ curiosity, fearing it will (3)/ increase risk and inefficiency. (4)
A. 1
B. 2
C. 3
D. 4
E. No Error

21. Although butter contains high (1)/ levels of calories and (2)/ fat, yet it may not encourage (3)/ long-term weight gain. (4)
A. 1
B. 2
C. 3
D. 4
E. No Error

22. The path to success not only (1)/ requires a great deal of (2)/ creativity but also demands (3)/ vision, flexible, and integrity. (4)
A. 1
B. 2
C. 3
D. 4
E. No Error

23. Over the past two decades, (1)/ the country have emerged (2)/ as one of Africa's most (3)/ successful and liberal economies. (4)
A. 1
B. 2
C. 3
D. 4
E. No Error

24. Have knowledge is one (1)/ thing but being able to (2)/ communicate it to others (3)/ is another kettle of fish. (4)
A. 1

B. 2
C. 3
D. 4
E. No Error

25. Home to some of (1)/ the finest museums and (2)/ art galleries in UAE, (3)/ Sharjah is a cultural oasis. (4)
A. 1
B. 2
C. 3
D. 4
E. No Error

26. **Direction:** In the following passage, there are blanks each of which has been numbered. These numbers correspond to the question numbers. Against each question, five words have been suggested, one of which would fill the blank appropriately. Mark the suitable word as the answer.
Despite its **(###Q1###)** and inaccuracies in early iterations, there's no denying that AI is transforming our daily lives at an incredible pace and most of the time the features, and broadly speaking, the **(###Q2###)** it offers are extremely useful. But in terms of its ability to completely transform the energy industry (and specifically oilfield) economics it's important to consider why much of the early AI conversation needs to be tempered with a degree of objectivity. The reality is one of marginal gains in many areas - much like creating a good sports team, over time these gains add up rather than causing **(###Q3###)** results everywhere. And this is especially the case within the energy industry. Some conversations in the energy industry suggest that AI can now **(###Q4###)** everything in one giant leap. The fact is, as a highly valuable additional factor, it can and will provide significant **(###Q5###)** improvements. But it's unlikely to radically transform everything overnight.
Find the appropriate word in each case.
A. Credible
B. Faults
C. Results
D. Feeble

E. Success

27. Find the appropriate word in each case.
A. Freedom
B. Lives
C. Change
D. Knowledge
E. Benefits

28. Find the appropriate word in each case.
A. Instantaneous
B. Delayed
C. Wrecking
D. Accumulation
E. Indifference

29. Find the appropriate word in each case.
A. Sustain
B. Pervasive
C. Transform
D. Inclusion
E. Carry

30. Find the appropriate word in each case.
A. Overdue
B. Radical
C. Static
D. Incremental
E. Lifestyle

31. **Direction:** Find the missing term in given series.
15, 8, 9, 15, 32, ?
A. 82.5
B. 81.5
C. 84.5
D. 80.5
E. 86

32. **Direction:** What should come in place of the question mark '?' in the following number series?
18, 24, 36, 56, 86,?
A. 128
B. 118
C. 124
D. 130
E. 126

33. **Direction:** Find the missing term in given series.
222, 110, 54, 26, ?
A. 8
B. 11
C. 13
D. 9
E. 12

34. **Direction:** Find the missing term in given series.
2, 1, 1, 1.5, 3, ?
A. 4.5
B. 6
C. 7.5
D. 8
E. 7.2

35. **Direction:** Find the missing term in given series.
26, 63, 124, 215, ?
A. 315
B. 421
C. 342
D. 426
E. 388

36. **Direction:** In the following question, two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.
A) $5x + 2y = 31$
B) $3x + 7y = 36$
A. X > Y
B. X ≥ Y
C. X < Y
D. X ≤ Y
E. X = Y or No relation can be established

37. **Direction:** In the following question two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.
A) $x^2 - 7x + 12 = 0$
B) $y^2 - 9y + 20 = 0$
A. X > Y
B. X ≥ Y
C. X < Y
D. X ≤ Y
E. X = Y or No relation can be established

38. **Direction:** In the following question two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.
A) $(x + 1)^2 = 12^2$
B) $y^2 + 2y - 143 = 0$
A. X > Y
B. X ≥ Y
C. X < Y
D. X ≤ Y
E. X = Y or No relation can be established

39. **Direction:** In the following question two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.
$6x^2 + 5x + 1 = 0$
$4y^2 + 4y + 1 = 0$
A. If X > Y
B. If X < Y
C. If X ≥ Y
D. If X ≤ Y
E. If X = Y or no relation can be established

40. **Direction:** In the following question two equations are given in variables X and Y. You have to solve these equations and determine the relation between X and Y.
$x^2 - 16x + 64 = 0$
$Y^2 = 64$
A. If X > Y
B. If X < Y
C. If X ≥ Y
D. If X ≤ Y
E. If X=Y or No relation can be established

41. Direction: Study the following pie-chart and table carefully to answer the questions that follow.
Percentage of visitors (male and female) in a museum on the given 3 days-Friday, Saturday and Sunday is depicted in the pie chart given below.
Total number of visitors on the given three days = 400

Percentage of visitors
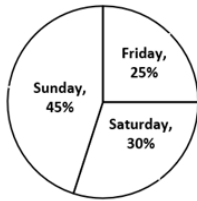
Ratio of male visitors to female visitors on the given three days is depicted in the table given below:

Days	Male : Female
Friday	2 : 3
Saturday	7 : 5
Sunday	5 : 4

On Tuesday, the number of female visitors was 1/5 more than that of Saturday. If the respective ratio between the number of male visitors and that of female visitors on Tuesday is 11 : 6, then what was the total number of visitors (male and female) on Tuesday?
A. 208
B. 170
C. 182
D. 130
E. 156

42. What is the total number of male visitors on the given 3 days together?
A. 220
B. 230
C. 200
D. 210
E. 190

43. Out of the total number of visitors on Saturday, 35% were adults. The cost for 1 adult's ticket is double that for one child's ticket. If the total amount collected from selling tickets on Saturday was Rs.8100. What is the cost of 1 adult's ticket?
A. Rs.200
B. Rs.160
C. Rs.120
D. Rs.100
E. Rs.50

44. What is the central angle corresponding to the number of visitors (male and female) on Sunday (in degrees)?
A. 172.8°
B. 165.6°
C. 162°
D. 154°
E. 198°

45. The number of female visitors on Friday was what percentage of the number of female visitors on Sunday?
A. 70%
B. 85%
C. 80%
D. 65%
E. 75%

46. **Direction**: What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)
$8.02 - (? - 9.01) + (10.92)^2 = 120$
A. 0
B. 18
C. 21
D. 24
E. 23

47. $13.96 \times \sqrt{9.09} + 200.02 = ?$
A. 226
B. 242
C. 256
D. 351
E. 248

48. $6\% \text{ of } \left[(198.99) + (15.99)^2 \right] = ?$
A. 30
B. 17
C. 27
D. 24
E. 3

49. $\dfrac{1}{14.96} - \dfrac{1}{3.94} + \dfrac{1}{?} = 0$
A. 5
B. 8
C. 10
D. 12
E. 3

8

50. $(6.02)^2 - \sqrt{120.89} + \sqrt{144.06} = ?$
A. 35
B. 42
C. 37
D. 40
E. 33

51. A started business with Rs. 600 and B with Rs. 900. After 5 months B left and C joined with capital Rs. 600 less than B. If at the end of year profit of C was Rs 3500, then find the total profit at the end of year.
A. Rs. 46000
B. Rs. 36000
C. Rs. 28000
D. Rs. 23000
E. None of these

52. Cost price of A is twice the cost price of B. If the selling price of B is Rs.3600 and it is sold at the profit of 20%, then find the cost price of A.
A. Rs.3000
B. Rs.6000
C. Rs.8000
D. Rs.2000
E. Rs.10000

53. Train A crosses a vertical pole at the speed of 15 m/s in 20 seconds. Speed of train A is 3 m/s less than the speed of train B and length of train B is 30 meter less than length of train A. Find the time taken by Train B to cross 270 meter long platform.
A. 20 seconds
B. 15 seconds
C. 30 seconds
D. 45 seconds
E. 40 seconds

54. The ratio of speed of a boat in still water to speed of the current is 10 : 1. If ratio of the time taken by the boat to travel D km downstream to the time taken to travel (D – 45) km upstream is 3 : 2. Find the value of D.
A. 88
B. 54
C. 110
D. 99

E. 66

55. 4 years hence the sum of ages of A and B will be 16 years more than the sum of the present ages of B and C. 4 years ago the sum of A's age and C's age was 32 years, then what is the present age of C?
A. 18 years
B. 14 years
C. 10 years
D. 16 years
E. 12 years

56. 40 men can complete a work in 48 days. If 64 men started working and after X days, 32 more men joined the work. If the remaining work is completed in $16\frac{2}{3}$ days, then find the value of X.
A. 2
B. 5
C. 8
D. 4
E. 6

57. Cost of gardening the circular field C at Rs.10 per meter square is Rs.3465. Side of the square field S is equals to the diameter of the circular field C. find the perimeter of square field.
A. 108
B. 84 m
C. 78 m
D. 112 m
E. None of these

58. 4 years ago, the ratio of ages of A and B was 9 : 11 and 6 years hence, the ratio of ages of A and B will be 7 : 8. Find the present age of B.
A. 22 years
B. 24 years
C. 26 years
D. 37 years
E. None of these

59. The cost price of the two chairs is same. Difference between their selling prices is Rs. 90. On selling one chair, a person got a profit of 12% and on selling another he got a profit of 18%. Find the cost price of each chair.

A. Rs. 1200
B. Rs. 1500
C. Rs. 1800
D. Rs. 2400
E. Rs. 1000

60. **Direction:** The bar graph shows the total number of male and female lives in four different towns and table shows the number of males and females whose ages are above 40 years. Read the data carefully and answer the questions below:
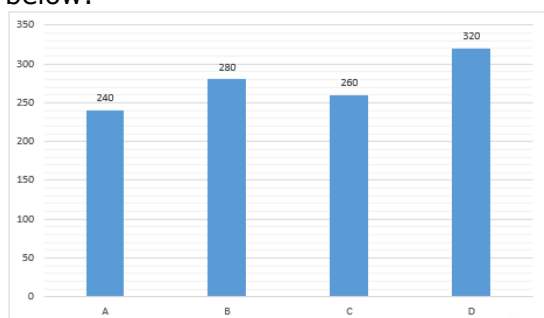
Name of the town	Number of males and females whose ages are above 40 years
A	50
B	70
C	110
D	120

Find the average number of those males and females whose ages are below and equals to 40 years of town A, C and D.
A. 180
B. 160
C. 190
D. 200
E. 210

61. Find the ratio of the those number of males and females whose ages are above 40 years in town A and B to those males and females whose ages are below and equals to 40 years in town D.
A. 1: 1
B. 3: 5
C. 2: 5
D. 4: 7
E. 1: 3

62. If 40% of population in town B whose ages are below and equals to 40 years are male and 40% of population in town D whose ages are below and equals to 40 years are female. Find the difference between the females of town B and D whose ages are below and equals to 40 years.
A. 46
B. 52
C. 49
D. 58
E. 39

63. Number of males and females in town A whose ages are below and equals to 40 years is what percent less than those number of males and females in town D whose ages are below and equals to 40 years.
A. 10%
B. 12%
C. 7%
D. 5%
E. 17%

64. **Direction:** The bar graph shows the total number of male and female lives in four different towns and table shows the number of males and females whose ages are above 40 years. Read the data carefully and answer the questions below:
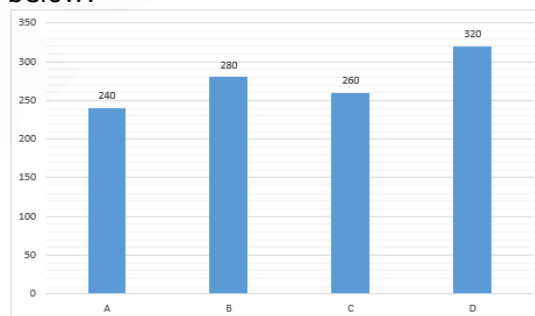
Name of the town	Number of males and females whose ages are above 40 years
A	50
B	70
C	110
D	120

If in another town E, total males and females are 10% more than the total males and females in town A and those males and females whose ages are above 40 years is 20% more than those males and females whose ages are above 40 years in town C. find the number of those males and females in town E whose ages are below and equals to 40 years. A. 132
B. 128
C. 142
D. 124

E. 138

65. Ratio of age A after two years to the present age of B is 5: 6 and ratio of age of A 8 years hence to the age of B 6 year hence is 6: 7. Find B's present age.
A. 30
B. 34
C. 36
D. 28
E. 24

66. **Direction:** Study the following information and answer the given questions carefully.
Six boxes A, B, C, D, E and F are kept one above the other. They like different colours viz. Red, Orange, Pink, Blue, Violet and Green but not necessarily in the same order.
Box C is kept immediately above the orange coloured box. Two boxes are kept between the orange coloured box and pink coloured box. Only three boxes are there between the pink coloured box and box E. Box E is not blue in colour. Red coloured box is kept immediately above the pink coloured box. Box F is Violet in colour. Box A is immediately above box B. Box D is orange in colour.
How many boxes are there between box A and box C?
A. One
B. Two
C. Three
D. Four
E. None

67. Which box is kept at the second position from the bottom?
A. D
B. E
C. A
D. B
E. C

68. Which box is green in colour?
A. C
B. D
C. A
D. E
E. B

69. Which box is kept immediately above box E?
A. A
B. F
C. D
D. B
E. C

70. How many boxes are kept above box F?
A. One
B. Two
C. Three
D. Four
E. None of these

71. **Direction:** Study the following information and answer the given questions carefully.
Point Q is 16m to the south of point P. Point R is 5m to the west of point Q. Point T is 25m to the north of point R. Point V is 10m to the east of point T. Point J is 9m to the south of point V.
In which direction is point V with respect to point Q?
A. North East
B. North West
C. East
D. South West
E. North

72. If W is to the west of point J and to the north of point R, then what is the distance between point W and point T?
A. 9m
B. 18m
C. 15m
D. 5m
E. None of these

73. In which direction and at what distance is point P with respect to point J?
A. 10m towards north
B. 10m towards east
C. 5m towards east
D. 10m towards south
E. 5m towards west

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

Six people A, M, N, C, O and G are sitting around a triangle in such a way that three of them are sitting at the corners and three of them are sitting in the middle of the sides. Those who are sitting at the corners face inside and those who are sitting in the middle of the sides face outside.

A sits at the corner. M is an immediate neighbour of A. Two people sit between M and C. O sits to the immediate left of C. N is an immediate neighbour of O.

What is the position of O with respect to C?
A. Third to the right
B. Fourth to the left
C. Immediate left
D. Second to the right
E. None of these

75. How many persons are sitting between A and O?
A. One
B. Two
C. Three
D. Four
E. Five

76. Who is sitting second to the right of A?
A. M
B. G
C. O
D. N
E. C

77. How many such pairs of letters are there in the word 'PERSUADE', each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?
A. One
B. Two
C. Three
D. Four
E. More than four

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

9 people are sitting in a straight line and some of them are facing north while some of them are facing south. The distance between any two immediate neighbours is the same. All the given information is not necessarily in the same order.

P sits second from one of the extreme ends of the line. R sits third to the right of P. Two people sit between R and S. U sits second to the right of S. Immediate neighbours of S face a direction opposite to that of S. Immediate neighbours of U face opposite directions. T sits second to the right of U. Both U and T face the same direction. W is a neighbour of T. W and T face opposite directions. Persons sitting at extreme ends face opposite directions. Q sits second to the left of V. X does not face south.

How many people sit between W and V.
A. 2
B. 6
C. 4
D. 5
E. None of these

79. Four of the following five are alike in a certain way, find the odd one out.
A. Q
B. W
C. P
D. V
E. R

80. Who among the following sit at the extreme ends?
A. VX
B. QS
C. QX
D. XS
E. VS

81. What is the position of T with respect to P.
A. Third to the right
B. Immediate left
C. Fifth to the left
D. Sixth to the right
E. Second to the right

82. Who sits to the immediate right of Q.
A. T
B. W
C. U

D. S
E. X

83. In a certain code language, 'TABLE' is coded as 'BUEFM' and 'PRAYS' is coded as 'SQDTZ', then how 'MINOR' will be coded in the same manner?
A. JNSQP
B. JQNSP
C. JNQSP
D. JNSPQ
E. JNPQS

84. **Direction**: In each of the following questions, some statements are given and these statements are followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.
Statements:
Only a few teachers are males.
A few males are boys.
Conclusions:
I. All teachers being males is a possibility.
II. All teachers being boys is a possibility.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

85. **Statements:**
All cars are toys.
Some toys are lamps.
Conclusions:
I. Only a few cars are lamps.
II. Some cars are not toys.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

86. **Statements**:
All telegrams are stamps.
All mobiles are telegrams.
Conclusions:
I. Only a few telegrams are mobiles.

II. Some stamps are telegrams.
A. Only conclusion I is true.
B. Only conclusion II is true.
C. Either conclusion I or II is true.
D. Neither conclusion I nor II is true.
E. Both conclusions I and II are true.

87. **Statements:**
A few ducks are birds.
Only birds are eggs.
Conclusions:
I. All birds being eggs is a possibility.
II. All ducks being eggs is a possibility.
A. Only conclusion I is true
B. Only conclusion II is true
C. Either conclusion I or II is true
D. Neither conclusion I nor II is true
E. Both conclusions I and II are true

88. **Direction:** Study the following information carefully and answer the questions given below:
Eight persons – Arushi, Bubbly, Charan, Dinkar, Edward, Fancy, Gani and Hari consists of a family of three generations such that there are three females and two married couples in the family. For every person of the family either both or none of the parents are alive. Charan's sister–in–law is mother of Gani. Hari is an unmarried female. Gani's mother doesn't have any siblings. Arushi is father–in–law of Fancy who is mother of two children. Bubbly is grandmother of Gani who is nephew of Dinkar.
How is Hari related to Arushi?
A. Daughter
B. Grandson
C. Granddaughter
D. Daughter – in – law
E. Niece

89. How is Dinkar related to Hari?
A. Aunty
B. Father – in – law
C. Cousin
D. Uncle
E. None of the above

90. How many children does Arushi have?
A. None
B. One
C. Two

D. Three
E. Four

91. If Vani is Dinkar's daughter, then how is Fancy related to Vani?
A. Mother – in – law
B. Sister – in – law
C. Aunt
D. Cousin
E. Cannot be determined

92. **Direction:** Read the following information carefully and answer the questions which follow.
P, Q, R, S, T and V live on different floors in the same building having its six floors numbered one to six (the ground floor is numbered 1, the floor above it is numbered 2, and so on, till the topmost floor is numbered 6).
Q lives on an even-numbered floor. Only two people live between the floors on which Q and V live. S lives on a floor immediately above the floor on which R lives. S does not live on an odd-numbered floor. P does not live on a floor which is immediately above or immediately below the floor on which T lives. P does not live on the lowermost floor, i.e., floor no. 1.
Who amongst the following live on the floors exactly between the floors on which Q and V live?
A. R, S
B. P, R
C. S, T
D. P, T
E. Cannot be determined

93. Who amongst the following lives on floor number 5?
A. P
B. Q
C. T
D. V
E. Cannot be determined

94. On which of the following floors does T live ?
A. 3rd
B. 5th
C. 1st
D. 4th
E. Cannot be determined

95. How many people live on the floors above the floor on which P live?
A. None
B. One
C. Two
D. Three
E. Cannot be determined

96. **Direction:** Study the following information carefully to answer the questions given below.
S N E 7 R % F 9 D 6 # G I $ 4 F H * 3 10 L 5 A @ 11 B Y & Z
How many such consonants are there in the above arrangement, each of which is immediately followed by a vowel but not immediately preceded by a number?
A. 1
B. 2
C. 3
D. 4
E. 5

97. How many such consonants are there in the above arrangement, each of which is immediately preceded by a vowel or immediately followed by a symbol but not both?
A. 0
B. 1
C. 2
D. 3
E. 4

98. Which of the following is the 8th to the left of the 16th from the left end in the above arrangement?
A. 9
B. F
C. D
D. #
E. None of these

99. How many such pairs of letters are there in the word DECAYS, each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?
A. One
B. Two
C. Three
D. None

14

E. More than three

100. In a row of students in a class, position of Andrew from the left side of the row is 32nd and position of Andrew from right side of the row is 41st. Find the total number of students in the row?
A. 78
B. 72
C. 69
D. 73
E. None of these

1. Ans. B.
In the context of the passage, stating that the growth trajectory is incredible is **just** or **appropriate** in the given circumstances, considering that it took only a little more than a just decade to reach this position. The appropriate word among the given options is 'reasonable'. So, the correct answer is option B.
Diligent: having or showing care and conscientiousness in one's work or duties.
Prejudiced: having or showing a dislike or distrust that is derived from prejudice; bigoted.

2. Ans. A.
In the context of the passage, 'Account for' implies that of the total global energy capacity, the part contributed by renewable energy is one-third. So, the correct answer is option A.

3. Ans. A.
The statement mentions that 'the growth trajectory is incredible' and that happened during a very short span of time. Overall, the growth and achievement can be considered 'remarkable or exceptional'. The most appropriate among the given options is 'phenomenal'. So, the correct answer is option A.

4. Ans. A.
Only statement (I) supports the author's claim that the rate of growth in Renewable Energy is not satisfactory. It mentions that fossil fuels are still a popular choice. This means alternative energy options are not available, thus supporting the author's claim.

5. Ans. B.
It is mentioned in the passage, "Worldwide acceptance towards green energy is giving the sustainable energy sector more market share every year". Statement III mentions the opposite and thus is incorrect in context of the given passage

6. Ans. E.
It has been mentioned in the passage that "The goal of green energy transition is to solve growing energy scarcity and reduce dependency on fossil fuels in order to move towards a fully sustainable energy landscape". The two points have been mentioned in A and B. So, the correct option is E.

7. Ans. D.
The statement "one can argue that the future has arrived, in parts at least" implies that Renewable Energy has made it presence felt, but it is not as much as it is required to be. The same idea has been mentioned in option D, which is the correct answer.

8. Ans. C.
Only A and E can be connected to make a grammatically correct and meaningful statement.
"Market research has shown us that people are loyal to a brand not prices".
So, the correct answer is option .

9. Ans. B.
Only A and E can be connected to make a grammatically correct and meaningful statement. Anything that is a rumour can be said to uncertain or doubtful truth.
"The rumours of petrol shortage turned out to be false".
Options B and D cannot connect as the sentence ends with the verb 'make'. It cannot be followed by the verb 'is'.

So, the correct answer is option B.

10. Ans. C.
A-E, B-F and C-D can be joined together to form a meaningful sentence. But in the options only A-E has been given. So, the correct answer is C.
The correct sentences are:
I) Countries are willing to do anything to avoid recession.
II) The effects of afforestation on biodiversity need to be analysed.
III) The scheme seeks to ensure a toilet in all households.

11. Ans. E.
C and F when joined together make a meaningful sentence but it is grammatically incorrect. The verb that follows 'does' should be used in its base form.
The correct sentences are:

I) A jam-packed business trip doesn't allow a lot of flexibility with time.

II) It is scientifically proven that running is beneficial for health.

III) Traveling with co-workers is a great chance to get to know them on a deeper level.

12. Ans. E.

B-D and C-F can be joined to make grammatically correct and contextually meaningful sentences, but the combinations have not been provided in the options. So, the correct option is E.

The policy emphasizes on increasing farmer's income.

We need to teach children to be gentle towards fellow citizens.

13. Ans. D.

All A & F, B & D and C & E can be joined to make grammatically correct and contextually meaningful sentences.

The correct sentences are:

The problems of poverty, homelessness and unemployment are all interconnected.

The objective of the exercise is to nurture the imagination of children.

The villagers are furious about the decision to close the railway station.

14. Ans. B.

Look around: to walk around a room, building, or place and see what is there.

When followed by the preposition 'for', the context changes to something particular such as 'the calculator' in the given sentence. So, the correct answer is option B.

Look out: to warn someone to be careful or to be vigilant.

Look up: to try to find a particular piece of **information** by looking in a book or on a list, or by using a computer.

Look by: look at a point next to.

Look on: watch without getting involved.

15. Ans. A.

The sentence implies that the admin has taken steps to do something to the education system. 'Taking steps' for a system such as education means that the steps will be positive. Out of the given options, the most appropriate option is 'revamp' which means 'give new and improved form, structure, or

appearance'. 'Improved' being in past tense is inappropriate. So, the correct answer is option A.

Rehearse: mentally prepare or recite.

Deteriorate: become progressively worse.

16. Ans. E.

The use of 'despite' indicates requirement of contrasting situations in the sentence. One is 'country remains poor', so the other one should be its richness in natural resources. The most appropriate word depicting the state of India i.e. rich in natural resources is 'being'. So, the correct answer is option E.

17. Ans. D.

The blank requires to be filled with an adjective (as indicated by superlative degree 'one of the most'). Among the given options, only 'overcharged' which means someone or something that charges you more than it is mandated, can be a suitable response. So, the correct answer is option D.

Iterative: relating to or involving iteration, especially of a mathematical or computational process.

Profiteer: make or seek to make an excessive or unfair profit, especially illegally.

Cashing: give or obtain notes or coins for (a cheque or money order).

18. Ans. A.

The verb 'to be' is the fundamental verb used to indicate the existence of an entity (person, object, abstraction) or **to relate an entity to its qualities or characteristics.** In the given sentence, the officer wanted/wished to be a seafarer (a person who regularly travels by sea; a sailor). So, the most appropriate option is A.

19. Ans. B.

The sentence mentions that in a particular case, the proposal should be rejected. Contextually, this will only be feasible if the proposal is not beneficial. So, the only word appropriate for the blank is 'harms'.

20. Ans. B.

The error is in the second part of the sentence.

We need to replace 'he' with 'they'. The antecedent being referred to by the pronoun is 'leaders' which is a plural noun. So, the use of singular pronoun 'he' will be incorrect.

So, the correct answer is option B.

21. Ans. C.

The error is in the third part of the sentence.

We need to remove 'yet'. The word "although" starts a two-clause statement. The word "although" already includes the meaning "but/yet" for the second clause. So adding "but/yet" will be redundant.

So, the correct answer is option C.

22. Ans. D.

The error is in the fourth part of the sentence.

We need to replace ' flexible' (adjective) with 'flexibility' (noun). We need a noun to maintain a parallel structure.

So, the correct answer is option D.

23. Ans. B.

The error is in the second part of the sentence.

We need to replace 'have' with 'has'. The subject 'country' is singular, so we need singular auxiliary verb 'has' in place of plural form 'have'.

So, the correct answer is option B.

24. Ans. A.

The error is in the first part of the sentence.

We need to replace 'have' with 'having'.

So, the correct answer is option A.

25. Ans. E.

The sentence is grammatically and contextually correct.

So, the correct answer is option E.

26. Ans. B.

The most appropriate word is 'Faults'.

So, the correct answer is option B.

27. Ans. E.

The most appropriate word is 'Benefits'.

So, the correct answer is option E.

28. Ans. A.

The most appropriate word is 'Instantaneous'.

So, the correct answer is option A.

29. Ans. C.

The most appropriate word is 'Transform'.

So, the correct answer is option C.

30. Ans. D.

The most appropriate word is 'Incremental'.

So, the correct answer is option D.

31. Ans. A.

$15 \times 0.5 + 0.5 = 8$

$8 \times 1 + 1 = 9$

$9 \times 1.5 + 1.5 = 15$

$15 \times 2 + 2 = 32$

$32 \times 2.5 + 2.5 = 82.5$

32. Ans. A.

The pattern of the series is:

33. Ans. E. $222 \div 2 - 1 = 110$

$110 \div 2 - 1 = 54$

$54 \div 2 - 1 = 26$

$26 \div 2 - 1 = 12$

34. Ans. C. The pattern of the series is:

$2 \times 0.5 = 1$

$1 \times 1 = 1$

$1 \times 1.5 = 1.5$

$1.5 \times 2 = 3$

$3 \times 2.5 = 7.5$

35. Ans. C.

$26 = 3^3 - 1$,

$63 = 4^3 - 1$, $124 = 5^3 - 1$, $215 = 6^3 - 1$, $\mathbf{342} = 7^3 - 1$

36. Ans. A.

A) $(5x + 2y = 31) \times 3$

B) $(3x + 7y = 36) \times 5$ $15x + 6y = 93$ .... (i)

$15x + 35y = 180$

 (ii) On solving both equations, we get $x = 5$ and $y = 3$

so, $X > Y$

37. Ans. D.

A) $x^2 - 7x + 12 = 0$

$\Rightarrow x(x - 4) - 3(x - 4) = 0 \Rightarrow (x - 4)(x - 3) = 0$

So, $x = 3, 4$ B) $y^2 - 9y + 20 = 0$

$\Rightarrow y(y - 5) - 4(x - 5) = 0 \Rightarrow (y - 5)(y - 4) = 0$

So, $y = 4, 5$

Hence, $X \leq Y$

38. Ans. E.

A) $(x + 1)^2 = 12^2$

$\Rightarrow (x + 1)^2 - 12^2 = 0$

$\Rightarrow (x + 1 - 12)(x + 1 + 12) = 0$

$\Rightarrow (x - 11)(x + 13) = 0$

x = 11, −13

B) $y^2 + 2y - 143 = 0$

$\Rightarrow y^2 + 13y - 11y - 143 = 0$

$\Rightarrow y(y + 13) - 11(y + 13) = 0$

$\Rightarrow (y + 13)(y - 11) = 0$

y = 11, − 13

So, no relation can be established.

39. Ans. C.

$6x^2 + 5x + 1 = 0$

$\Rightarrow 6x^2 + (3 + 2)x + 1 = 0$

$\Rightarrow 3x(2x + 1) + (2x + 1) = 0$

$\Rightarrow (3x + 1)(2x + 1) = 0$

$\Rightarrow x = -1/3, -1/2$

$4y^2 + 4y + 1 = 0$

$\Rightarrow 4y^2 + (2 + 2)y + 1 = 0$

$\Rightarrow (2y + 1)^2 = 0$

$\Rightarrow y = -1/2$

So, X ≥ Y

40. Ans. C.

$x^2 - 16x + 64 = 0$

$\Rightarrow (x - 8)^2 = 0$

$\Rightarrow x = 8$

$Y^2 = 64$

$\Rightarrow Y = \pm 8$

So, X ≥ Y

41. Ans. B.

Day	Male	Female	Total
Friday	40	60	100
Saturday	70	50	120
Sunday	100	80	180

Number of female visitors on Tuesday = 50 + 1/5th of 50 = 50 + 10 = 60

Number of male visitors on Tuesday = (11/6) × 60 = 110

Hence, the total number of visitors on Tuesday = 60 + 110 = 170.

42. Ans. D.

Day	Male	Female	Total
Friday	40	60	100
Saturday	70	50	120
Sunday	100	80	180

The total number of male visitors on the given 3 days together = 40 + 70 + 100 = 210.

43. Ans. D.

Day	Male	Female	Total
Friday	40	60	100
Saturday	70	50	120
Sunday	100	80	180

Let cost of 1 adult's ticket = Rs. 2x, then cost of 1 child's ticket = Rs. x

According to question

(35% of 120)× 2x + (65% of 120) × x = 8100

$\Rightarrow 84x + 78x = 8100$

$\Rightarrow x = 8100/162 = 50$

Hence, cost of 1 adult's ticket = Rs. 2x = 2× Rs. 50 = Rs.100.

44. Ans. C.

Day	Male	Female	Total
Friday	40	60	100
Saturday	70	50	120
Sunday	100	80	180

Required central angle = (45/100) × 360° = 162°.

45. Ans. E.

Day	Male	Female	Total
Friday	40	60	100
Saturday	70	50	120
Sunday	100	80	180

Required percentage = (60/80) × 100 = 75%.

46. Ans. B.

$8.02 - (? - 9.01) + (10.92)^2 = 120$

$\Rightarrow 8 - ? + 9 + (11)^2 = 120$

$\Rightarrow 8 - ? + 9 + 121 = 120$

$\Rightarrow ? = 138 - 120$

$\Rightarrow ? = 18$

47. Ans. B.

$? = 14 \times 3 + 200$

$\Rightarrow ? = 42 + 200$

$\Rightarrow ? = 242$

48. Ans. C.

$$6\% \text{ of } \left[(198.99) + (15.99)^2 \right] = ?$$

$$? = \frac{6}{100} \times [\, 199 + (16)^2 \,]$$

$$? = \frac{6}{100} \times [\, 199 + 256 \,]$$

$$? = \frac{6}{100} \times 455$$

$$? = 27.30$$

$$? \approx 27$$

49. Ans. A.

$$\frac{1}{14.96} - \frac{1}{3.94} + \frac{1}{?} = 0$$

$$\frac{1}{?} = \frac{1}{4} - \frac{1}{15}$$

$$\frac{1}{?} = \frac{15 - 4}{60}$$

$$\frac{1}{?} = \frac{11}{60}$$

$$? = \frac{60}{11} \approx 5$$

50. Ans. C.

$$(6.02)^2 - \sqrt{120.89} + \sqrt{144.06} = ?$$

$$? = (6)^2 - \sqrt{121} + \sqrt{144}$$

$$? = 36 - 11 + 12$$

$$? = 37$$

51. Ans. D.
Ratio of the equivalent capitals of A, B and C for 1 month
= 600 × 12 : 900 × 5 : 300 × 7 = 24 : 15 : 7
According to question
7 ≡ Rs. 3500
⇒ 1 ≡ Rs. 500
The total profit at the end of year = 24 + 15 + 7 = 46 ≡ 46 × Rs. 500 = Rs. 23000

52. Ans. B.
Given, selling price of B = 1.20 × cost price of B
⇒ Cost price of B = 3600 ÷ 1.20 = Rs.3000
According to question,
Cost Price of A = 2 × Cost price of B
Hence, the cost price of A = 2 × Rs.3000 = Rs.6000.

53. Ans. C.
Let the length of Train A be L meters, then According to question,
$$\frac{L}{15} = 20$$
⇒ L = 300 m

∴ Length of train A is 300 m
So, length of train B = 300 – 30 m = 270 meters Speed of train B = 15 + 3 = 18 m/s When B crosses a 270 m long platform,
Time = $\frac{270 + 270}{18}$ seconds = 30 seconds
Hence, the required time = 30 seconds.

54. Ans. D. Let ratio of speed of a boat in still water to speed of the current is 10x : x, then
$$\frac{D/(10+1)x}{D - 45/(10-1)x} = \frac{3}{2}$$
⇒ 18D = 33D – 33 × 45 ⇒ 15D = 33 × 45 ⇒ D = 99

55. Ans. D. According to the question:
Present age of A and C: A + C = 40 ....(i)
After 4 years, sum of ages of A and B will be 16 years more than the sum of the present ages of B and C. A + 4 + B + 4 = B + C + 16 A - C = 8 ....(ii)
On solving eq(i) and eq(ii). 2A = 48
A = 24
Then, the present age of C:
24 + C = 40 C = 16 Years

56. Ans. B.
By MDW formula,
Total work = 48× 40 = 1920 units Now,
1920 = 64 × X + (64 + 32) × (50/3) ⇒ 1920 = 64X + 1600 ⇒ 64X = 320
⇒ X = 5

57. Ans. B. Let r meter be the radius of circular field C, then Area of circular field C × 10 = 3465 ⇒ Πr² × 10 = 3465

⇒ r² =

⇒ r = Side of square field S = 2 × r = 21m Perimeter of square field = 4 × 21 = 84 meters

58. Ans. C.

$$\frac{441}{4}$$

$$\frac{21}{2}$$

Let the ages of A and B be 9X and 11X, then

According to the question:

$$\frac{9X + 10}{11X + 10} = \frac{7}{8}$$

⇒ 72X + 80 = 77X + 70

⇒ X = 2

Hence, the present age of B = 11X + 4 = 22 + 4 = 26 years

59. Ans. B.

Let CP of the Article 100x Rs.

So SP of first Article at 12% gain= 112x Rs.

And SP of second Article at 18% gain = 118x Rs.

ATQ,

118x – 112x= 90

6x = 90

X= 15

So CP of the Article = 100x =1500 Rs.

60. Ans. A.

Name of town	Total number of males and females	Number males and females who ages are above 40 years	Number of males and females whose ages are below and equals to 40 years
A	240	50	190
B	280	70	210
C	260	110	150
D	320	120	200

Required average = (190 + 150 + 200) ÷ 3

= 540 ÷ 3

= 180

61. Ans. B.

Name of town	Total number of males and females	Number males and females who ages are above 40 years	Number of males and females whose ages are below and equals to 40 years
A	240	50	190
B	280	70	210
C	260	110	150
D	320	120	200

Required ratio = 50 + 70: 200

= 120: 200

= 3: 5

62. Ans. A.

Name of town	Total number of males and females	Number males and females who ages are above 40 years	Number of males and females whose ages are below and equals to 40 years
A	240	50	190
B	280	70	210
C	260	110	150
D	320	120	200

Number of females in town B whose ages are below and equals to 40 years = 210 × 0.60

= 126

Number of females in town D whose ages are below and equals to 40 years = 200 × 0.40

= 80

Required difference = 126 – 80

= 46

63. Ans. D.

Name of town	Total number of males and females	Number males and females who ages are above 40 years	Number of males and females whose ages are below and equals to 40 years
A	240	50	190
B	280	70	210
C	260	110	150
D	320	120	200

Required percentage = $\frac{200-190}{200}$ × 100

= 5%

64. Ans. A.

Name of town	Total number of males and females	Number males and females who ages are above 40 years	Number of males and females whose ages are below and equals to 40 years
A	240	50	190
B	280	70	210
C	260	110	150
D	320	120	200

Total males and females in town E = 1.10 × 240

= 264

Number of males and females whose ages are above 40 years = 1.20 × 110

= 132

Required answer = 264 – 132

= 132

65. Ans. C.

Let the age of A be x years and age of B be y years,

A.T.Q,

$$\frac{A+2}{B} = \frac{5}{6}$$

6A + 12 = 5B

6A – 5B = - 12 ---------- (i)

$$\frac{A+8}{B+6} = \frac{6}{7}$$

7A + 56 = 6B + 36

7A – 6B = - 20 ----------- (ii)

On solving eq. (i) and (ii), we get

A = 28 and B = 36

66. Ans. B.

Box	Colour
A	Red
B	Pink
F	Violet
C	Blue
D	Orange
E	Green

67. Ans. A.

Box	Colour
A	Red
B	Pink
F	Violet
C	Blue
D	Orange
E	Green

68. Ans. D.

Box	Colour
A	Red
B	Pink
F	Violet
C	Blue
D	Orange
E	Green

69. Ans. C.

Box	Colour
A	Red
B	Pink
F	Violet
C	Blue
D	Orange
E	Green

70. Ans. B.

Box	Colour
A	Red
B	Pink
F	Violet
C	Blue
D	Orange
E	Green

71. Ans. A.
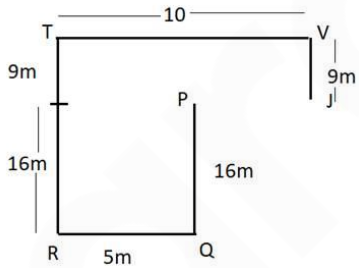
72. Ans. A.
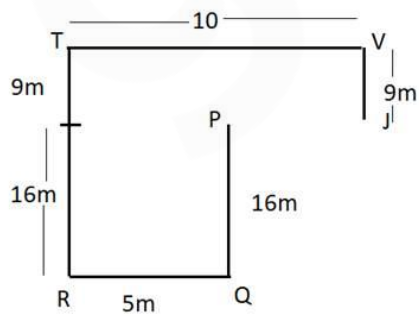
73. Ans. E.
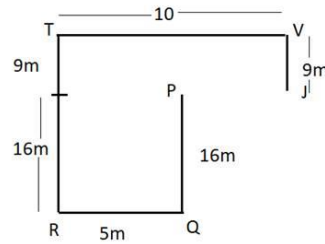
74. Ans. C.
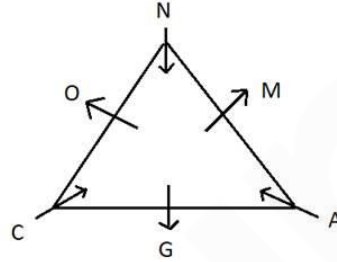
75. Ans. B.
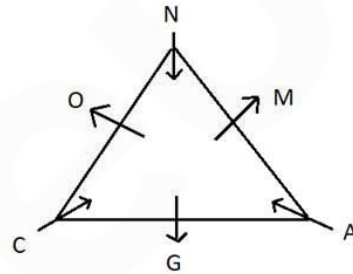
76. Ans. D.
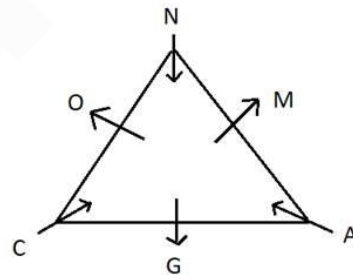
77. Ans. E.

78. Ans. D.
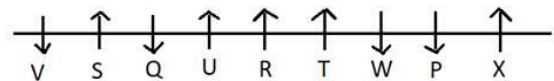
79. Ans. E.
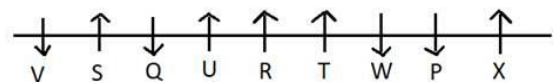
80. Ans. A.
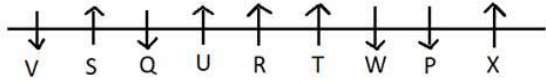
81. Ans. E.
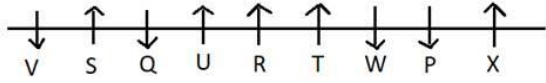
82. Ans. D.
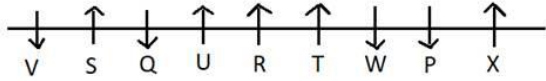
83. Ans. C.

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T A B L E          P R A Y S
X I X      and     X I X
B U E F M           S Q D T Z
```
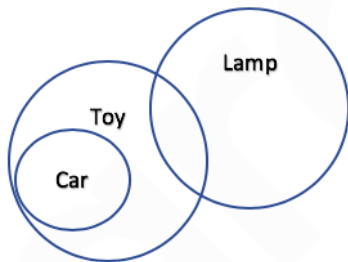
Similarly,
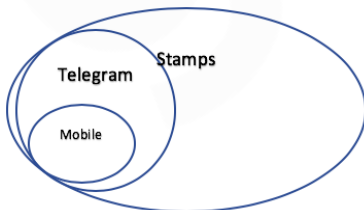
```
M I N O R
X I X
J N Q S P
```

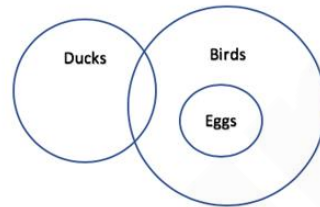**84. Ans. B.**
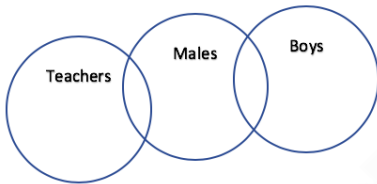
85. Ans. D.

86. Ans. B.

I. Only a few telegrams are mobiles. -- All mobile are telegram also include a case where mobile and telegram are overlapping, so the stated conclusion only a few telegram are mobile is wrong here as it means that some telegram are mobile and some telegram are not mobile.

II. Some stamps are telegrams. -- This case has explained by the diagram clearly.

87. Ans. E.

88. Ans. C.
Eight persons – Arushi, Bubbly, Charan, Dinkar, Edward, Fancy, Gani and Hari
1) A family of three generations such that there are three females and two married couples in the family.
2) Bubbly is grandmother of Gani who is nephew of Dinkar.
Charan's sister – in – law is mother of Gani.
Gani's mother doesn't have any siblings.
3) Arushi is father – in – law of Fancy who is mother of two children.
Hari is an unmarried female.
Hence, Fancy is mother of Gani and Hari.
4) There are three females and two married couple in the family.
Hence, Dinkar and Charan are brothers of Edward.
Draw the family tree using following notations:

Symbol in Diagram	Meaning
◯	Female
☐	Male
═══	Married couple
───	Siblings
│	Difference of a Generation

Hence, Hari is granddaughter of Arushi.

89. Ans. D.

Eight persons – Arushi, Bubbly, Charan, Dinkar, Edward, Fancy, Gani and Hari

1) A family of three generations such that there are three females and two married couples in the family.

2) Bubbly is grandmother of Gani who is nephew of Dinkar.

Charan's sister – in – law is mother of Gani.

Gani's mother doesn't have any siblings.

3) Arushi is father – in – law of Fancy who is mother of two children.
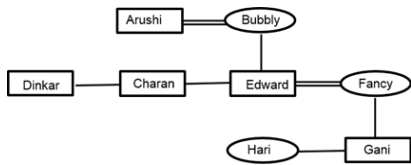
Hari is an unmarried female.

Hence, Fancy is mother of Gani and Hari.

4) There are three females and two married couple in the family.

Hence, Dinkar and Charan are brothers of Edward.

Draw the family tree using following notations:

Symbol in Diagram	Meaning
○	Female
□	Male
═══	Married couple
───	Siblings
│	Difference of a Generation

Hence, Dinkar is uncle of Hari.

90. Ans. D.

Eight persons – Arushi, Bubbly, Charan, Dinkar, Edward, Fancy, Gani and Hari

1) A family of three generations such that there are three females and two married couples in the family.

2) Bubbly is grandmother of Gani who is nephew of Dinkar.

Charan's sister – in – law is mother of Gani.

Gani's mother doesn't have any siblings.

3) Arushi is father – in – law of Fancy who is mother of two children.
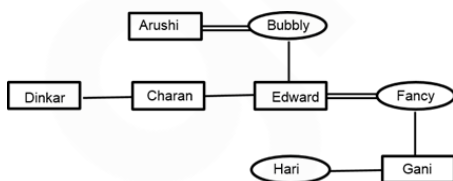
Hari is an unmarried female.

Hence, Fancy is mother of Gani and Hari.

4) There are three females and two married couple in the family.

Hence, Dinkar and Charan are brothers of Edward.

Draw the family tree using following notations:

Symbol in Diagram	Meaning
○	Female
□	Male
═══	Married couple
───	Siblings
│	Difference of a Generation

Hence, Arushi has three children.

91. Ans. C.

Eight persons – Arushi, Bubbly, Charan, Dinkar, Edward, Fancy, Gani and Hari

1) A family of three generations such that there are three females and two married couples in the family.

2) Bubbly is grandmother of Gani who is nephew of Dinkar.

Charan's sister – in – law is mother of Gani.

Gani's mother doesn't have any siblings.

3) Arushi is father – in – law of Fancy who is mother of two children.
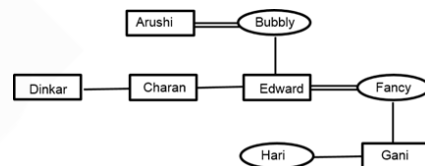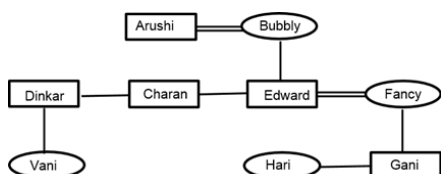
Hari is an unmarried female.

Hence, Fancy is mother of Gani and Hari.

4) There are three females and two married couple in the family.

Hence, Dinkar and Charan are brothers of Edward.

Draw the family tree using following notations:

Symbol in Diagram	Meaning
◯	Female
☐	Male
═══	Married couple
───	Siblings
│	Difference of a Generation

Hence, Fancy is aunt of Vani.

92. Ans. A.

• Q lives on an even-numbered floor.
• Only two people live between the floors on which Q and V live.(There will be 3 cases: Q-6th floor, V- 3rd floor; Q- 4th floor, V-1st floor; Q- 2nd floor, V- 5th floor)
• S lives on a floor immediately above the floor on which R lives.
• S does not live on an odd-numbered floor.(S and R will get their positions in all the three cases)
• P does not live on a floor which is immediately above or immediately below the floor on which T lives. (First two cases eliminated)
• P does not live on the lowermost floor, i.e., floor no. 1.
From the given conditions, we can conclude:

Person	Floor
P	6
V	5
S	4
R	3
Q	2
T	1

Hence R and S live on the floors exactly between the floors on which Q and V live.

93. Ans. D.

• Q lives on an even-numbered floor.
• Only two people live between the floors on which Q and V live.(There will be 3 cases: Q-6th floor, V- 3rd floor; Q- 4th floor, V-1st floor; Q- 2nd floor, V- 5th floor)
• S lives on a floor immediately above the floor on which R lives.
• S does not live on an odd-numbered floor.(S and R will get their positions in all the three cases)
• P does not live on a floor which is immediately above or immediately below the floor on which T lives. (First two cases eliminated)
• P does not live on the lowermost floor, i.e., floor no. 1.
From the given conditions, we can conclude:

Person	Floor
P	6
V	5
S	4
R	3
Q	2
T	1

Hence V lives on the 5[th] floor.

94. Ans. C.

• Q lives on an even-numbered floor.
• Only two people live between the floors on which Q and V live.(There will be 3 cases: Q-6th floor, V- 3rd floor; Q- 4th floor, V-1st floor; Q- 2nd floor, V- 5th floor)
• S lives on a floor immediately above the floor on which R lives.
• S does not live on an odd-numbered floor.(S and R will get their positions in all the three cases)
• P does not live on a floor which is immediately above or immediately below the floor on which T lives. (First two cases eliminated)
• P does not live on the lowermost floor, i.e., floor no. 1.
From the given conditions, we can conclude:

Person	Floor
P	6
V	5
S	4
R	3
Q	2
T	1

Hence T lives on the first floor.

95. Ans. A.
• Q lives on an even-numbered floor.
• Only two people live between the floors on which Q and V live.(There will be 3 cases: Q-6th floor, V- 3rd floor; Q- 4th floor, V-1st floor; Q- 2nd floor, V- 5th floor)
• S lives on a floor immediately above the floor on which R lives.
• S does not live on an odd-numbered floor.(S and R will get their positions in all the three cases)
• P does not live on a floor which is immediately above or immediately below the floor on which T lives. (First two cases eliminated)
• P does not live on the lowermost floor, i.e., floor no. 1.

From the given conditions, we can conclude:

Person	Floor
P	6
V	5
S	4
R	3
Q	2
T	1

Hence P lives on top floor (6^{th} floor) hence no one lives above the floor on which P live.

96. Ans. B.
S $\underline{N}$ E 7 R % F 9 D 6 # $\underline{G}$ I $ 4 F H * 3 10 L 5 A @ 11 B Y & Z
There are two such consonants = N and G
Therefore, Option 'B' is the correct answer.

97. Ans. D.
S N E 7 $\underline{R}$ % F 9 D 6 # G I $ 4 F $\underline{H}$ * 3 10 L 5 A @ 11 B $\underline{Y}$ & Z
There are three such consonants = R, H and Y
Therefore, Option 'D' is the correct answer.

98. Ans. A.
Left of left = 16 – 8 = 8^{th} from the left
8^{th} character from the left = 9
Therefore, Option 'A' is the correct answer.

99. Ans. B.

D E C A Y S

100. Ans. B.
Total number of students = (Position of Andrew from left + Position of Andrew from right) – 1
Total number of students = (32 + 41) – 1 = 72