Directions (Q. 1-5): In each of the questions, relationship between some elements is shown in the statement(s). These statements are followed by conclusions numbered I and II. Read the statements and give answer
1) if conclusion I is true.
2) if conclusion II is true.
3) if both conclusion I and II are true.
4) if either conclusion I or II is true.
5) if neither conclusion I nor II is true.

1.**Statement** : $F < R < L \leq S > O$
Conclusions : **I.** $F < S$ **II.** $O > R$

2.**Statement** : $U \leq C = N < Q \geq J$
Conclusions : **I.** $Q > U$ **II.** $C < J$

3.**Statement** : $G \geq R = O \geq W$
Conclusions : **I.** $G > W$ **II.** $W = G$

4.**Statement** : $K > E \geq R = A; E < B$
Conclusions : **I.** $K = A$ **II.** $A < B$

5.**Statement** : $D = O < L \leq P > H$
Conclusions : **I.** $P < D$ **II.** $O > H$

Directions (Q.6-10): Study the following information carefully and answer the questions given below:

Eight people G, H, I, J, K, L, M and N live in a building on different floors from top to bottom (such as the ground floor is numbered as 1 and the top floor is numbered as 8) but not necessarily in the same order.

There is a gap of three floors between J and L and both of them live on odd floors. N lives just above H, who lives on an even-numbered floor. I lives on floor number 6. Only one person lives between L and M. J lives above I. Three persons live between K and H.

6. Who among the following lives on the ground floor?
1) N   2) J   3) K
4) M   5) Other than those given as options

7. Who among the following lives immediately below L?
1) K   2) I   3) G
4) H   5) Other than those given as options

8. How many persons live between I and H?
l) One   2) Three   3) Five
4) Two 5) Other than those given as options

9. Who among the following lives on the top floor?
1) N   2) J   3) K
4) M   5) Other than those given as options

10. Which of the following combinations is false?
1) J - 7   2) L - 3   3) G - 2
4) H - 4   5) N - l

11. In a row of children facing north, Rajan is twelfth from the right end and is fifth to the right of Satyarthi, who is tenth from the left end. How many children are there in the row?
1) 29   2) 28   3) 26
4) 27   5) Other than those given as options

12. Raj leaves his home and goes 20 metres straight, then turns to his right and goes 10 metres. He turns to his left and goes 30 metres and finally turns to his right and starts walking. If he is now moving in the north direction, then towards which direction did he start walking?
1) East   2) West   3) South
4) North   5) Other than those giver as options

Directions (Q. 13-17): In each of the questions given below, a group of digits/letters is given followed by four combinations of symbols numbered (1), (2), (3) and (4). You have to find out which of (he four combinations correctly represents the group of digits/letters based on the symbol codes and the conditions given below. If none of the four combinations represents the group of digits correctly, give (5), ie 'Other than those given as options', as the answer.

Digits	Z	L	F	1	I	5	7	A	E	B	2	X	6	W
Symbols	@	!	$	^	Ҷ	Δ	A	&	>	#	<	®	ε	π

Conditions for coding the group elements:
(i) If the first letter is a vowel and the last digit is divisible by 2, then both are to be coded as +.
(ii) If the first as well as the last digit is odd, then both are to be coded by the code for the first digit.
(iii) If the first letter is a consonant and the last digit is an odd number, then the code for the first and the last element are to be interchanged.

13. WX6ZF1
1) ^®$©επ   2) ^@$π<!   3) ^®ε@$π
4) π®@>!<   5) Other than those given as options

14. FEIXI6
1) π^@<!ε 2) $<^^ε@ 3) $>^®ɥε
4) $<^@^ε 5) Other than those given as options

15. 5L2IA1
1) Δ!<ɥ&Δ 2) Δ!&^<ɥ 3) Δ!<ɥ^&
4) ɥ&Δ!<^ 5) Other than those given as options

16. E2ZA6
l) &>!^@ 2)@<@&! 3) @&<@&
4) +<@&+ 5) Other than those given as options

17. IZ2W2
1) @#^$& 2) +@<π+ 3) <πɥ@#
4) @#>!^ 5) Other than those given as options

Directions (Q.18-22): Read the following information carefully and answer the given questions.

A, B, C, D, E, F, G and H are eight members standing in a row (but not necessarily in the same order) facing north. C and B have as many members between them as G and C have between them, D, who is 4th from the extreme left end, is 2nd to the left of E. G is third place from one of the extreme ends. Neither B nor C sits at any extreme end. F sits on the immediate right of A.

18. How many persons sit between G and B?
l) One 2) Three 3) Two
4) Four 5) Other than those given as options

19. Who among the following sit at the extreme ends?
1) A, C 2) B, C 3) F, H
4) H, A 5) Other than those given as options

20. Who sits second to the right of E?
1) B 2) H 3) G
4) C 5) Other than those given as options

21.Who sits third to the left of G?
1) A 2) F 3) E
4) B 5) None

22. Who sits on the immediate left of C?
1) A 2) H 3) C
4) D 5) Other than those given as options

23. Find the odd man out.
1) ACB 2) DFE 3) GIH
4) JLK 5) MNO

Directions (Q. 24-28): Study the following number sequence and answer the given questions.

9 3 2 4 5 7 9 5 8 1 5 0 6 4 2 9 8 2 6 3 5 9 8 2 1 5 4 3 2 1

24. How many odd numbers are there in the numeric series which are immediately preceded by a number which is a whole square?
1) One 2) Two 3) Three
4) More than three 5) None

25. If all the odd numbers are dropped from the series, which number will be eighth to the left of the eleventh number from the left end?
1) 2 2) 8 3) 6
4) 4 5) Other than those given as options

26. If 1 is subtracted from all odd numbers and 2 is subtracted from all even numbers in the given number series, then which number will be sixteenth from the right end?
1) 0 2) 2 3) 3 4) 8 5) 6

27. If the position of the 1st and the 16th numbers, the 2nd and the 17th numbers, and so on up to the 15th and the 30th numbers, are interchanged, which number will be 7th to the right of 19th number from the right end?
1) 5 2) 9 3) 8
4) 4 5) Other than those given as options

28. How many even numbers immediately preceded by a 'whole cube' or 'immediately preceded by a whole square' are there in the above sequence?
1) Four 2) Five 3) Three
4) Six 5) Other than those given as options

Directions (Q. 29-33): In each of the following questions given below there are three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read both the conclusions and decide which of them logically follows from the given statements disregarding commonly known facts.
Give answer
1) if both conclusion I and II follow.
2) if only conclusion II follows.
3) if neither conclusion I nor II follows.
4) if only conclusion I follows.
5) if either conclusion I or II follows.

29. **Statements**:All shirts are skirts.
No skirt is a top.
All tops are kurtas.

Conclusions: **I.**All shirts are kurtas.
II. Some kurtas are skirts.

30. **Statement**: Some chocolates are chips.
Some chips are jelly.
All jellies are whoppers.
Conclusion: **I.** Some jellies are chips.
II. All chocolates being whoppers is a possibility.

31. **Statement** : Some Frootis are Maaza.
No Maaza is Slice.
All Slices are Fanta.
Conclusion : **I.** Some Frootis are definitely not Slice.
II. Some Fantas are definitely not Maaza.

34. **Statement**: All carbons are oxygen.
All nitrogens are carbon.
Some oxygens are sulphur.
Conclusion : **I.** All nitrogens being sulphur is a possibility.
II. All nitrogens are not oxygen.

33. **Statement** : All Septembers are October.
No October is November.
No November is December.
Conclusion: **I.** Some Septembers are not November
II. No October is December.

Directions (Q. 34-38): The following questions are based on the five words given below,
NOW, SAD, WAF, RAT, CAT

Note: The new words formed after performing the mentioned operations may not necessarily be a meaningful English word.

34. If the given words are arranged in the order as they appear in English dictionary from left to right, which of the following will be fourth from the left end?
1) WAF   2) NOW   3) SAD
4) CAT   5) RAT

35. How many letters are there in the English alphabetical series between the second letter of the word which is second from the right end and the third letter of the word which is second from the left end?
1) Two   2) Three   3) Four
4) Five   5) Other than those given as options

36. If the third alphabet in each of the words is changed to the previous alphabet in the English alphabetical order, how many words thus formed will be without any vowels?
1) None   2) One   3) Two
4) Three   5) More than three

37. If the position of the first and the third alphabet of each of the words are interchanged, which of the following will form a meaningful word in the new arrangement?
l) NOW   2) SAD   3) RAT
4) WAF   5) Both 1) and 3)

38. If in each of the given words, each of the consonants interchanged to its previous letter and each vowel is changed to its next letter in the English alphabetical series, then in how many words thus formed at least one vowel will appear?
1) None   2) One   3) Two
4) Three   5) More than three

39. If in the number 9737132710, the positions of the first and the second digits are interchanged, similarly, the positions of the third and fourth digits are interchanged and so on till the positions of 9th and 10th digits are interchanged, then which digit will be 6th from the left end?
1) 7   2) 1   3) 3
4) 9   5) Other than those given as options

40. How many pairs of letters are there in the word 'WORSHIP' which have as many letters between them in the word as in the English alphabetical series?
1) None   2) One   3) Two
4) Four   5) Three

TEST-II: NUMERICAL ABILITY

41. The retail price of a water geyser is ₹l265. If the Manufacturer gains 10%, the wholesaler gains 15% and the retailer gains 25%, then what is the cost of the product?
1) 800   2) 900   3)700
4) 600   5) Other than those given as options

42. A pipe can fill a cistern in 6 hours. Due to a leak in its bottom, it is filled in 7 hours. When the cistern is full, in how much time will it be emptied by the leak?
1) 42 hours   2) 40 hours   3) 43 hours
4) 45 hours   5) Other than those given as options

43. Ram travels a certain distance at the speed of 3 km/h and reaches 15 minutes late. If he travels at the speed of 4 km/h, he reaches 15 minutes earlier. Then what is the distance that he travels?
1) 4.5km   2) 6km   3)72km
4) 12km   5) Other than those given as options

44. In a 45-litre mixture the ratio of milk to water is 3: 2. how much water must be added to make the ratio 9: 11?
1) 10 litres   2) 15 litres   3) 17 litres
4) 20 litres   5) Other than those given as options

45, A person can row with the stream at the speed of 8 km/hr and against the stream at the speed of 6 km/h. What is the speed of the stream?
1) 1 km/h   2) 2 km/h   3) 4 km/h
4) 5 km/h   5) Other than those given as options

46. A father's age is three times the sum of the ages of his two children, but 20 years hence his age will be equal to the sum of their ages. What is the father's age?
1) 30 years   2) 35 years   3) 40 years
4) 45 years   5) Other than those given as options

47. A sum was put at simple interest at a certain rate for 3 years. Had it been put at 1% higher rate, it would have fetched ₹5100 more. What is the sum?
l) 170000   2) l50000   3) l25000
4) 120000   5) Other than those given as options

48, From among 36 teachers in a school, one principal and one vice-principal are to Be appointed. In how many ways can this be done?
1) 1260   2) 1250   3) 1240
4)1800   5) Other than those given as options

49. A card is drawn at random from a well-shuffled pack of 52 cards. What is the probability of getting two hearts or two diamonds?
1) $\frac{3}{26}$ 2) $\frac{2}{17}$ 3) $\frac{1}{26}$
4) $\frac{4}{13}$ 5) Other than those given as options

Directions (Q. 50-54): Study the table and answer the given questions.

Days / Mob ph seller	Mon	Tue	Wed	Thur	Fri	Sat	Sun
P	40	45	48	28	50	24	20
Q	90	92	27	12	16	98	26
R	80	36	30	13	28	62	47
S	60	46	12	64	52	34	76
T	48	18	58	69	70	10	15

50. Find the difference between the number of mobile phones sold by P and R together on Monday and the number of mobile phones sold by S and 'I' on Wednesday?
1) 60   2) 50   3) 80
4) 20   5) Other than those given as options

51. Find the ratio of the number of mobile phones sold by Q on Tuesday and Saturday together to that sold by R on Thursday and Sunday together?
1) 7:19   2) 19:5   3) 19:6
4) 2:5   5) Other than those given as options

52. The number of mobile phones sold by P and S together on Wednesday is what per cent of that sold by T on Sunday?
1) 400%   2)200%   3) 100%
4) 50%   5) Other than those given as options

53. What is the average number of mobile phones sold by Q on Wednesday. T on Sunday and S on Monday'?
1) 24   2) 36   3) 30
4) 28   5) Other than those given as options

54. The mobiles sold by P on Thursday are of two types. ie, Windows phone and Android phone. in ratio of 3: 4. Find the number of Windows phones sold by' P on Thursday.
1)14   2) 24   3) 16
4) 12   5) Other than those given as options

55. A sum is invested for 3 years at compound interest at 5%, 10% and 20% respectively. In three year, if the sum amounts to ₹16,632, then find the sum.
l) ₹11000   2) ₹12000   3) ₹13000
4) ₹l4000   5) Other than those given as options

Directions (Q. 56-65): What should come in place question mark (?) in the following questions
56. 45% of 600 - ?% of 480 = 390
1) 20   2) 25   3) 30
4) 40   5) Other than those given as options

57. $4\frac{2}{3} + 7\frac{1}{6} - 5\frac{2}{9} = ?$
1) $6\frac{2}{3}$ 2) $6\frac{2}{9}$ 3) $6\frac{11}{18}$
4) $4\frac{7}{18}$ 5) Other than those given as options

58. 65% of 240 + ?% of 150 = 210
1) 45   2) 46   3) 32
4) 36   5) Other than those given as options

59. $\frac{2}{3}$ of $1\frac{2}{5}$ of 75% of 540 = ?
1) 378   2) 756   3) 252
4) 332   5) Other than those given as options

60. 555.5+55.50+5.55+5+0.55=?
1) 621.65   2) 655.75   3) 634.85
4) 647.35   5) Other than those given as options

61. 1425 + 8560 + 1680 ÷ 200 = ?
1) 58.325   2) 9973.4   3) 56.425
4) 9939.4   5) Other than those given as options

62. ? % of 800 = 293 - 22% of 750
1) 14   2) 18   3) 12
4) 16   5) 20

63. 25.6% of 250 + √? = 119
1) 4225   2) 3025   3) 2025
4) 5625   5) Other than those given as options

64. $4\frac{5}{6}$ - $5\frac{5}{9}$ = ? - $2\frac{1}{3}$ +$1\frac{1}{18}$
1) $\frac{3}{4}$ 2) $\frac{21}{18}$ 3) $\frac{17}{9}$
4) $1\frac{11}{18}$ 5) Other than those given as options

65. {30% of {(80% of 850) ÷ 34}] = ?
1) 5   3) 4   3) 6
4) 8   5) 9

66. The sides of a triangle are in the ratio of $\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$ If the perimeter is 52 cm. then what is the length of the smallest side?
1) 9 cm   2)10cm   3)11cm
4)12cm   5) Other than those given as options

67. If A's salary is 25% higher than B's, then how much per cent is B's salary lower than A's?
1) 15%   2) 20%   3) 25%
4) $3\frac{31}{3}$ 5) Other than those given as options

68. Ravi sold an article at a gain of $12\frac{1}{2}$%. If he had sold it at ₹22.50 more, he would have gained 25%. What was the cost price of the article?
1) ₹162   2) ₹140   3) ₹196
4) ₹180   5) Other than those given as options

69. A certain job was assigned to a group of men to do it in 20 days. But 12 men did not turn up for the job and the remaining men did the job in 32 days. What is the original number of men in the group?
1) 32   2) 34   3) 36
4) 40   5) Other than those given as options

70. A vessel contains liquid P and Q in the ratio of 5: 3. If 16 litres of mixture is removed and the same quantity of liquid Q is added to it the ratio became 3: 5. What quantity does the vessel hold?
1) 35 litres   2) 45 litres
3) 40 litres   4) 50 litres
5) Other than those given as options

Directions (Q. 71-75): What should come in place of question mark (?) in the following questions?
71. 50% of 250 + √? = 165
1) 1700   2) 1600
3) 1800   4) 2000
5) Other than those given as options

72, l40 % of 56 + 56% of 140?
1) 78.4   2) 158.6
3) 156.8   4) 87.4
5) Other than those given as options

73. $1\frac{1}{4}$ ÷ $\left(1\frac{5}{9} \times 1\frac{5}{8} \div 6\frac{1}{2}\right)$
1) 17   2) 27   3) 42
4) 18   5) Other than those given as options

74. 99.09 + 99.90 + 9.99 + 0.99 = ?
1) 1118.97   2) 112897
3) 1218.97   4) 1139.97
5) Other than those given as options

75. 20% of [{(220% of 40) - 10}]% of 500 = ?
1) 58   2) 68   3) 98
4) 78   5) Other than those given's options

Directions (Q.76-80): What should come in place of question mark (?) in the given number series?
76. 5 8 12 18 27 ?
1) 39   2) 40   3) 41
4) 42   5) 43

77. 2 10 30 68 130 ?
1) 210   2) 215   3) 222
4) 238   5) 235

78. 142 133 115 88 ?
1) 50   2) 53   3) 55
4) 51   5) 52

79. 3 8 18 38 78 ?
1) 158   2) 154   3) 150
4) 162   5) 166

80. 6 3 3 6 24 ?
1) 184   2) 186   3) 190
4) 188   5) 192

ANS:

1.1	2.1	3.4	4.2	5.1	6.4
7.3	8.1	9.3	10.5	11.3	12.1
13.3	14.3	15.1	16.4	17.2	18.2
19.4	20.2	21.5	22.4	23.5	24.4
25.2	26.1	27.4	28.2	29.3	30.1
31.1	32.4	33.4	34.3	35.1	36.1
37.5	38.2	39.2	40.5	41.1	42.1
43.2	44.2	45.1	46.1	47.1	48.1
49.2	50.2	51.3	52.1	53.5	54.4
55.2	56.2	57.3	58.4	59.1	60.5
61.5	62.4	63.2	64.5	65.3	66.4
67.2	68.4	69.1	70.3	71.2	72.3
73.5	74.1	75.4	76.2	77.3	78.5
79.1	80.5				

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