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Vedic Mathematics

Directions (Q.1–5): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Given answer
(a)　if only conclusion I is true.
(b)　if only conclusion II is true.
(c)　if either conclusion I or II is true.
(d)　if neither conclusion I nor II is true.
(e)　if both conclusions I and II are true.

1.**Statement:** C ≤≥ D > E = M < J = L
Conclusion :
I. L > E
II. C ≥ J

2.**Statement:**　P = N ≤ Q > R > T = S
Conclusion :
I. N ≥ S
II. P ≤ Q

3.**Statement:**　J ≥ P = I ≥ M < T ≥ V > H
Conclusion :
 I. M ≤ J
II. H ≥ M

4.**Statement:**　Q ≤ X ≤ E > F = D < O < K = G
Conclusion :
I. D > Q
II. K ≤ E

5.**Conclusion :**
I. Q ≤ E
II. G > F

Directions (Q. 6 – 10): The following questions are based on the five three – digit numbers given below:
684　512　437　385　296

6.If 2 is added to the first digit of each of the numbers how many numbers thus formed will be divisible by three?
(a)　None
(b)　One
(c)　Two
(d)　Three
(e)　None of these

7.If all the digits in each of the numbers are arranged in descending order within the number, which of the following will be the highest number in the new arrangement of numbers ?
(a) 684
(b) 385
(c) 296
(d) 437
(e) None of these

8.What will be the resultant number if the second digit of the second lowest number is divided by the third digit of the highest number ?
(a)　2
(b)　3
(c)　0
(d)　1
(e)　4

9.If 1 is added to the first digit and 2 is added to the last digit of each of the numbers then which of the following numbers will be the second highest number?
(a) 385
(b) 684
(c) 437
(d) 296
(e) 512

10.If in each number the first and the second digits are interchanged then which will be the highest number?
(a) 296
(b) 512
(c) 437
(d) 684
(e) 385

Directions (Q. 11-15): Study the flowing information carefully to answer arrangement of symbols, digits and letters.
W % 9 3 G 6 H # 7 K $ L 2 ★ B M J © 4 5 E 8 @ Z

11.If all the numbers are deleted from the above arrangement then which of the following will be seventh to the left of sixth from the right?
(a)　H

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(b)   J
(c)   M
(d) $
(e)   None of these

12.How many such numbers are there in the above arrangement each of which is immediately preceded by a symbol?
(a)   One
(b)   Two
(c)   Three
(d)   Four
(e)   None of these

13.'9W' is to 'GH#' and '$7' is to '2BM' in the same way as '4J' is to in the arrangement.
(a)   E@8
(b)   58®
(c)   B2L
(d)   58Z
(e)   None of these

14.How many such symbols are there in the above arrangement each of which is immediately followed by a letter?
(a)   None
(b)   One
(c)   Two
(d)   Three
(e)   None of these

15.If all the symbols are deleted from the above arrangement then which of the following will be the fourth to the left of twelfth from the right?
(a)   9
(b)   3
(c)   W
(d)   M
(e)   None of these

Directions (Q. 16-20): Study the following information carefully to answer these questions. Eight friends A, B, C, D E, F G and H are sitting around a circle facing the center. A sits third to the left of B, while second to the right of F. D does not sit next to A or B. C and G always sit next to each other. H never sits next to D and C does not sit next to B.

16.Which of the following pairs sits between H and E?
(a)   F, D
(b)   H, B
(c)   C, G
(d)   E, G
(e)   None of these

17.Starting from A's position, if all the eight were arranged in alphabetical order in clockwise direction the seating position of how many members (excluding A) not change?
(a)   None
(b)   one
(c)   Two
(d)   Three
(e)   None of these

18.Which of the following pairs has only one person sitting between them, if the counting is done in clockwise direction?
(a)   A, B
(b)   C,D
(c)   F, E
(d)   G,H
(e)   None of these

19.Who sits to the immediate right of E?
(a)   A
(b)   D
(c)   F
(d)   H
(e)   None of these

20.What is the position of B with respect to C?
(a)   Second to the left
(b)   Third to the right
(c)   Third to the left
(d)   Can't be determined
(e)   None of these

21.In a certain code language SERIES is written as QCGTGU. How is EXPERT written in that code language?
(a)   VTGRZG
(b)   RPCRZG

(c)   GZRCPR
(d)   RPCGZR
(e)   None of these

22.How many such pairs of letters are there in the word COMPOSE each of which has many letters between them in the word as they have between them in the English alphabetical series?
(a)   None
(b)   One
(c)   Two
(d)   Three
(e)   None of these

Directions (Q. 23-25): Study the following information carefully and answer the questions given below.
In a certain code 'all Aspirants must qualify' is written as 'na li ja pa', 'qualify in all subjects' in written as 'ta ja li ra' and 'Aspirants read all subjects' is written as 'sa li na ra'.

23.What does 'li' stand for?
(a)   subject
(b)   qualify
(c)   must
(d)   All
(e)   None of these

24.   What will be the code for 'ja na'?
(a)   Must qualify
(b)   Aspirants subjects
(c)   qualify subjects
(d)   Can't be determined
(e)   None of these
25.What will be the code for 'qualify'?
(a)   li
(b)   sa
(c)   ja
(d)   pa
(e)   Can't be determined.

Directions (Q. 26- 27): Study the following information carefully to answer these questions.
A vehicle starts from point P and run 10 km towards North. It takes a right turn and runs 15 km. Now It runs 6 km after taking a left turn. Finally, It takes a left turn, runs 15 km and stops at point Q.

26.How far is point Q with respect to point P?
(a)   16 km
(b)   25 km
(c)   4 km
(d)   0 km
(e)   None of these

27.Towards which direction was the vehicle moving before it stopped at point Q?
(a)   North
(b)   East
(c)   South
(d)   West
(e)   North – West

28.The position of how many digits in the number 54327618 will remain unchanged if the digits within the number are written in ascending order from left to right?
(a)   None
(b)   One
(c)   Two
(d)   Three
(e)   None of these

29.In a row of 34 students, W is fifth after X from the front and X is 20th from the back. What is the position of W from the front?
(a)   20
(b)   25
(c)   30
(d)   22
(e)   None of these

30.What will come in place of question mark (?) in the following series?
TG HU VI JW ?
(a)   KY
(b)   KX
(c)   YK
(d)   XK
(e)   None of these

Directions (Q. 31-35) Study the following information carefully and answer the question given below.

Six friends A ,B, C, D, E and F are going for entrance exam during a period of starting from Monday to Saturday. Only one exam will be held on each day.
• C gives exam atleast before three exams.
• F gives exam on Tuesday.
• Both B and E does not give exam on even day.
• D is going for exam immediately after the exam on which C given.
• Atleast four persons are going for exam after E.

31.On which day E gives entrance exam?
(a) Wednesday
(b) Monday
(c) Friday
(d) Tuesday
(e) None of these.

32.Who gives exam immediately after the exam of 'B'?
(a) E
(b) D
(c) A
(d) B
(e) None of these.

33.How many persons give exam before on which C gives?
(a) One
(b) Two
(c) Three
(d) Four
(e) None.

34.'A' going for the exam on which day?
(a) Monday
(b) Wednesday
(c) Saturday
(d) Tuesday
(e) None of these.

35.How many persons give exam between B and the person who's exam is on Monday?
(a) One

(b) Two
(c) Three
(d) Four
(e) None.

Directions (36-40): What should come in the place of
question mark (?) in the following questions?

36. $\frac{7}{5}$ of $58 + \frac{3}{8}$ of $139.2 = ?$
(a) 133.4
(b) 137.2
(c) 127.8
(d) 131.6
(e) None of these

37. 12% of 555+ 15% of 666 = ?
(a) 166.5
(b) 167.5
(c) 168.5
(d) 169.5
(e) None of these

38. 84368+65466 – 72009 - 13964 = ?
(a) 61481
(b) 62921
(c) 63861
(d) 64241
(e) None of these

39. $33^{7.8} \times 33^{1.2} \div 33^5 = 33 \times 33^?$
(a) 2.8
(b) 3
(c) 3.2
(d) 4
(e) 6

40. $\frac{?}{529} = \frac{324}{?}$
(a) 404
(b) 408
(c) 410
(d) 414
(e) 416

Directions (41-45): Study the following table carefully and

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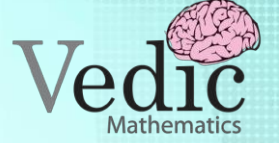
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Vedic Mathematics

answer the given questions:

The number of various crimes, as supplied by national crime record, reported in different states in the year 2012-13.

Dist.	Stalking	Assault	Theft	Murder	Criminal Trespass
Bihar	352	496	265	132	332
MP	376	225	216	125	115
UP	85	125	53	56	57
HP	10545	3652	12224	354	10128
AP	445	225	252	173	154
Delhi	473	576	675	764	852
Haryana	245	256	257	261	263
Rajasthan	273	276	278	252	353

41. The total number of various crimes in HP is
(a)   37803
(b)   38903
(c)   37903
(d)   36903
(e)   37003

42. Find the ratio of Stalking and Assault in UP to Theft and Criminal Trespass in Haryana.
(a)   28 : 51
(b)   21 : 52
(c)   52 : 21
(d)   14 : 55
(e)   55 : 14

43. Find the approximate average of Murder and Theft in all the eight states together.
(a)   1141
(b)   1132
(c)   1311
(d)   941
(e)   1021

44. The total number of Assaults and Murders together in Bihar is what per cent of the total number of crimes in that state?
(a)   29.82%
(b)   39.82%
(c)   25%
(d)   21.82%
(e)   25.5%

45. Find the difference between the number of various crimes committed in Bihar and that in Rajasthan.
(a)   105
(b)   98
(c)   145
(d)   139
(e)   104

Directions (46-50): What should come in the place of question mark (?) in the following questions?

46. $4376 + 3209 - 1784 + 97 = 3125 + ?$
(a)   2713
(b)   2743
(c)   2773
(d)   2793
(e)   2737

47. $\sqrt{?} + 14 = \sqrt{2601}$
(a)   1521
(b)   1369
(c)   1225
(d)   961
(e)   1296

48. 85% of 420 + ?% of 1080 = 735
(a)   25
(b)   30
(c)   35
(d)   40
(e)   45

49. $\frac{7}{3}$ of $\frac{5}{4}$ of $\frac{1}{9}$ of $3024 = ?$
(a)   920
(b)   940
(c)   960
(d)   980
(e)   840

50. 30% of 1225 – 64% of 555 = ?
(a)   10.7

(b)   12.3
(c)   13.4
(d)   17.5
(e)   None of these

51. How many litres of water should be added to a 30 litre mixture of milk and water containing milk and water in the ratio of 7 : 3 such that the resultant mixture has 40% water in it?
(a)   5
(b)   2
(c)   3
(d)   8
(e)   7

52. The S.I on certain sum of money for 15 months at rate of 7.5% per annum exceed the S.I on same sum at 12.5% per annum for 8 months by Rs 3250 find sum?
(a)   160000
(b)   20000
(c)   170000
(d)   18000
(e)   312000

53. 4 men and 3 women finish a job in 6 days, and 5 men and 7 women can do the same job in 4 days. How long will 1 man and 1 woman take to do the work?
(a) $22(\frac{2}{7})$ days
(b) $25(\frac{1}{2})$ days
(c) $5(\frac{1}{7})$ days
(d) $12(\frac{7}{22})$ days
(e)   None of these

54. A and B started a business with initial investments in the ratio 5 : 7. If after one year their profits were in the ratio 1 : 2 and the period for A's investment was 7 months, B invested the money for
(a)   6 months
(b)   2 ½ months
(c)   10 months
(d)   4 months
(e)   7 months

55. An army lost 10% its men in war, 10% of the remaining due to diseases and 10% of the rest were disabled. Thus, the strength was reduced to 729000 active men. Find the original strength.
(a)   1000000
(b)   1200000
(c)   1500000
(d)   1800000
(e)   none of these

56. What is the difference between the compound interests on Rs. 5000 for 1 years at 4% per annum compounded yearly and half-yearly?
(a)   2
(b)   3
(c)   4
(d)   8
(e)   none of these

57. The speeds of John and Max are 30 km/h and 40 km/h. Initially Max is at a place L and John is at a place M. The distance between L and M is 650 km. John started his journey 3 hours earlier than Max to meet each other. If they meet each other at a place P somewhere between L and M, then the distance between P and M is :
(a)   220 km
(b)   250 km
(c)   330 km
(d)   320 km
(e)   None of these

58. The average weight of boys in a class is 30 kg and the average weight of girls in the same class is 20 kg. If the average weight of the whole class is 23.25 kg, what could be the possible strength of boys and girls respectively in the same class?
(a)   14 and 26
(b)   13 and 27
(c)   17 and 27
(d)   19 and 21
(e)   None of these

59. A profit of 8% is made by selling a shirt after offering a discount of 12%. If the marked price of the shirt is Rs.1080, find its cost price
(a)   890
(b)   780
(c)   880
(d)   900
(e)   none of these

60. The difference between $\frac{4}{5}$ of a number and 45% of the number is 56. What is 65% of the number?
(a)   96
(b)   104
(c)   112
(d)   120
(e)   None of these

61. A man can row 24 km upstream and 54 km downstream in 6 hours. He can also row 36 km upstream and 48 km downstream in 8 hours. What is the speed of the man in still water?
(a)   18.75 kmph
(b)   19.25 kmph
(c)   17.65 kmph
(d)   15.55 kmph
(e)   22.75 kmph

62. The numerator of a fraction is decreased by 25% and the denominator is increased by 250%. If the resultant $\frac{6}{5}$ fraction is what is the original fraction?
(a) $\frac{22}{5}$
(b) $\frac{24}{5}$
(c) $\frac{27}{6}$
(d) $\frac{28}{5}$
(e) $\frac{30}{11}$

63. What would be the area of a rectangle whose area is equal to the area of a circle of radius 7 cm?
(a) $77\ cm^2$
(b) $154\ cm^2$
(c) $184\ cm^2$
(d) $180\ cm^2$
(e) $150\ cm^2$

64. In a village three people contested for the post of village Pradhan. Due to their own interest, all the voters voted and no one vote was invalid. The losing candidate got 30% votes. What could be the minimum absolute margin of votes by which the winning candidate led by the nearest rival, if each candidate got an integral per cent of votes?
(a)   4
(b)   2
(c)   1
(d)   3
(e)   None of these

65. The price of an article is first increased by 20% and later on the price were decreased by 25% due to reduction in sales. Find the net percentage change in final price of Article.
(a)   20%
(b)   18%
(c)   38%
(d)   10%
(e)   None of these

Directions (66–70): What will come in the place of the
question mark (?) in the following number series?

66. 48, 23, ?, 4.25, 1.125
(a)   10.5
(b)   10
(c)   2.5
(d)   11
(e)   None of the above

67. 2, 15, 41, 80, 132, ?
(a)   197
(b)   150
(c)   178
(d)   180
(e)   None of the above

68. ?, 15, 75, 525, 4725, 51975
(a)   5
(b)   10
(c)   8
(d)   6

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(e)   None of the above

69. 4, 19, 49, ?, 229
(a)   75
(b)   109
(c)   65
(d)   169
(e)   None of the above

70. 840, ?, 420, 140, 35, 7
(a)   408
(b)   840
(c)   480
(d)   804
(e)   None of the above