

## REASONING QUESTION

Directions (Q.Nos 1-2) : each question has four analogies from a to d. Mark all correct analogies.

1. (a) Murrey : Black : : Magenta : Red (b) Inter : Exhume : : Piebald : Homogenous  
(c) Effete : Fructuous : : Chapfallen : Effrvescent (d) Selenology : Moon : : Epistemology : Knowledge

2. Money : Transaction

- (a) Life : Death (b) Water : Drink  
(c) Ideas : Exchange (d) Language : Conversation

3. If it is possible to form only one three digit number which is a perfect square of a two digit number from the second, the sixth and the seventh digits of the number 76483912 using each digit only once. The second digit of that number is your answer. If no such number can be formed, your answer is 'O' and if more than one such number can be formed, your answer is '5'.

- (a) 5 (b) 0 (c) 1 (d) 6

4. Number of letters skipped in between adjacent letters in the series is in the order of  $1^2+1$ ,  $2^2+2$ ,  $3^2+3$ . Which of the following series observes the rule given above ?

- (a) BDIV (b) BCIV (c) BDJU (d) BDJV

5. If in a certain code language 'RELATED' is written as 'EFUBKDQ', then how will 'RETAINS' be written in that language ?

- (a) SDQBTOJ (b) JOTBQDS (c) JOTBSDQ (d) TOJBSDQ

6. In a certain code MOAN is written as 5%3\$ and NEWS is written as \$1@8. How is SOME written in that code ?

- (a) 8 % 51 (b) 85 % 8 (c) 8 @ 51 (d) 8 % 31

7. Where should the number 17 be placed to fit into the sequence ? 18,11,15,14,19,16,10,12,20

- (a) Between 14 and 19 (b) Between 18 and 11  
(c) Between 19 and 16 (d) Between 12 and 20

Directions (Q. Nos 8 – 9) : What value should come in place of the question mark (?) in the series given below ?

8. A1Z, E2V, I6R, M21N, Q88j, ?

- (a) F445 U (b) U 445 F (c) G342 C (d) V 441 G

9. BD3FH, AC5EG, JL7NP, ?

- (a) IK9MO (b) IK11MO (c) IK13MO (d) IK17MO

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Directions (Q. Nos 10-11) : In each of the following questions, a set of figures carrying certain characters is given. Assuming that the characters in each set follow a similar pattern, find the missing character in each case.

10.

17	8	5	5
13	7	5	4
6	12	6	3
10	6	4	?

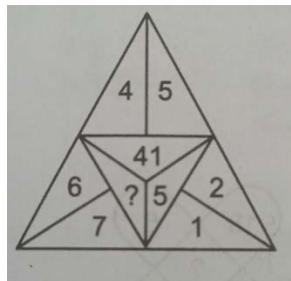
(a) 4

(b) 5

(c) 6

(d) 7

11.



(a) 16

(b) 9

(c) 85

(d) 112

12. Gita is older than her cousin Mita. Mita's brother Bhanu is older than Gita. When Mita and Bhanu are visiting Gita, all three like to play a game of Monopoly. Mita wins more often than gita does.

Which of the following can be concluded from the above ?

(a) When he plays Monopoly with Mita and Gita, Bhanu often loses.

(b) Of the three, Gita is the oldest

(c) Gita hates to lose at Monopoly

(d) Of the three, Mita is the youngest

13. Seema correctly remembers that she took leave after 21<sup>st</sup> October and before 27<sup>th</sup> October. Her colleague Rita took leave on 23<sup>rd</sup> October but Seema was present on that day. If 24<sup>th</sup> October was a public holiday and 26<sup>th</sup> October was Sunday, on which day in October did Seema take leave ?

(a) 22<sup>nd</sup> October

(b) 25<sup>th</sup> October (c) 22<sup>nd</sup> or 25<sup>th</sup> October

(d) Data Inadequate

14. If '@' means 'x', 'c' means '+', % means (÷) and '\$' means '-' then  $6\%12C3@8\$3 = ?$

(a) 37

(b) 35

(c) 39

(d) 33

15. In which of the following expressions does the expression ' $M > R$ ' does not hold true ?

(a)  $M = P > Q > R$

(b)  $M > P \geq Q = R$

(c)  $R = P < Q < M$

(d)  $M = P < Q = R$

## REASONING QUESTION

Directions (Q. Nos. 16-17) : In the following questions some equations are solved on the basis of a certain system. On the same basis, find out the correct answer for the unsolved question.

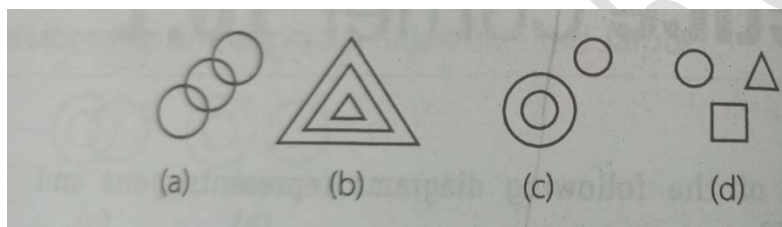
16. If  $85+25 = 50$  and  $97+65 = 93$  then  $72+94 = ?$

- (a) 92                      **(b) 50**                      (c) 67                      (d) 60

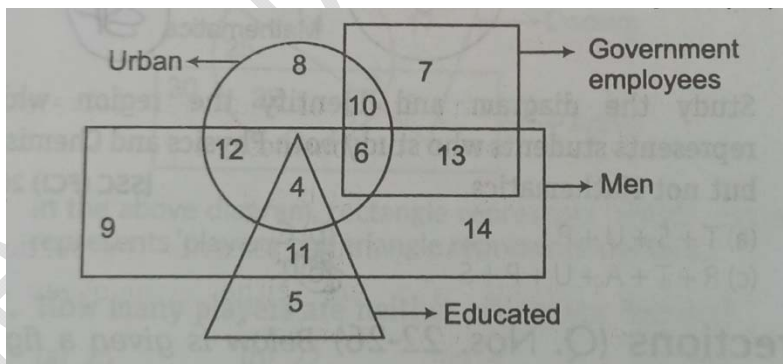
17. If  $4267 = 10$  and  $3374 = 9$ , then  $4255 = ?$

- (a) 12                      **(b) 10**                      (c) 20                      (d) 8

18. Which of the following diagrams best represents the relationship among Uttar Pradesh, Kanpur, Jaipur ?



Directions (Q. Nos 19-20) : Consider the following Venn diagram and answer the questions that follow.



19. In the following diagram, which of the following represents the educated men but not urban ?

- (a) 9                      (b) 5                      (c) 4                      **(d) 11**

20. In the following diagram, which of the following represents a man who is urban as well as a Government employee?

- (a) 7                      (b) 13                      (c) 10                      **(d) 6**

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21. T, S and R are three brothers. T's son Q is married to K and they have one child Rahul blessed to them. M the son of S is married to H and this couple is blessed with a daughter Madhvi. R has a daughter N who is married to P. This couple has one daughter Karuna born to them. How is Madhvi related to S ?

- (a) Daughter      (b) Niece      **(c) Grand Daughter**      (d) None of these

22. If each of the twelve digits on a watch is replaced by English vowels a, e, i, o, u in sequence ( 1 by a, 2 by e, and so on ), the hour hand will be between which pair of vowels at 9 : 30 am?

- (a) ae      (b) ei      (c) io      **(d) ou**

23. If January 1 is a Friday, then what is the first day of the month of March in leap year ?

- (a) Tuesday**      (b) Wednesday      (c) Thursday      (d) Friday

24. The day on 18.09.1977 was Sunday A couple was married on this date. How many marriage anniversaries would fall on Sunday in the next 15 Years ?

- (a) 1      **(b) 2**      (c) 5      (d) 9

25. The time in a clock is quarter past twelve. If the hour hand points to the East, which is the direction opposite to the minute hand ?

- (a) South-West      (b) South      (c) West      **(d) North**

26. Sharada started to move in the direction of South. After moving 15 m, she turned to her left twice and moved 15 m each time. Now, how far is she and in which direction from her starting point ?

- (a) 20 m, West      **(b) 15 m, East**      (c) 15 m, South      (d) 30 m, East

27. Mr Raghav went in his car to meet his friend John. He drove 30 km towards North and then 40 km towards West. He then turned to South and covered 8 km. Further he turned to East and moved 26 km. Finally he turned right and drove 10 km and then turned left to travel 19 km. How far and in which direction is he from the starting point ?

- (a) East of starting point, 5 km      (b) East of starting point, 13 km  
**(c) North East of starting point, 13 km**      (d) North East of starting point, 5 km

Directions (Q. Nos. 28-32) : Read the following information carefully to answer the given questions

Six people a, B, C, D, E and F are sitting on the ground in a hexagonal shape. All the sides of the hexagon, so formed are of same length. A is not adjacent to B or C. D is not adjacent to C or E. B and C are adjacent. F is in the middle of D and C.

28. Which of the following is not a correct neighbor pair ?

- (a) A and F**      (b) D and F      (c) B and E      (d) C and F

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29. Who is at the same distance from D as E is from D ?

- (a) B (b) C (c) D (d) F

30. Which of the following group has the correct order of arrangement ?

- (a) A,F,B (b) F,A,E (c) B,C,F (d) D,A,B

31. If one neighbor of A is D, who is the other one ?

- (a) B (b) C (c) E (d) F

32. Who is placed opposite to E ?

- (a) B (b) C (c) D (d) F

33. You are handling a priority project and have been meeting all the deadlines and are therefore planning your leave during the project. Your immediate boss does not grant your leave citing the urgency of the project. You would

- (a) proceed on leave without waiting for the sanction  
(b) pretend to be sick and take leave  
(c) approach higher authority of reconsider the leave application  
(d) tell the boss that it is not justified

Directions (Q.Nos 34-36): Study the following information carefully and answer the given questions.

Seven persons namely Prem, Tirkey, Madan, Jagan, Virendar, Raghubir and Waris are good friends and are studying in MBA. Engineering and medical courses. Three are doing MBA course, two are in engineering course and another two are in medical course. Each of them has a very distinct and favourite colour choice ranging from blue, red, yellow, white, black, pink and brown but not necessarily in the same order. None doing MBA likes either red or black. Madan is doing engineering and he likes blue. Raghubir is doing medical and likes brown. Jagan is doing MBA and likes yellow. Prem who does not. Like red is in the same discipline of Raghubir. Tirkey is in the same discipline of Madan. Virender does not like pink.

34. Which of the following groups is doing MBA ?

- (a) Jagan, Raghubir and Madan (b) Virendar, Waris and Tirkey  
(c) Jagan, Virendar and Waris (d) Jagan, Prem and Raghubir

35. What is the colour combination choice of those who are in medical discipline ?

- (a) Brown and pink (b) Black and white  
(c) Black and brown (d) Yellow and black

36. Which colour does Virendar like ?

- (a) Yellow (b) Pink (c) White (d) Brown

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Directions (Q. Nos 37-39) : Study the following information to answer the given questions.

A word arrangement machine when given as input line of words, rearranges them following a particular rule in each step. The following is an illustration of input and steps of arrangement.

Input      every now and then same  
Step I     very ow nd hen ame  
Step II    ever no an the sam  
Step III   vry nw nd thn sm  
Step IV   ee o a e ae  
Step V    ery w d en me

37. What will be the step V for the following input ?

Input you are the one great person

(a) u e e e eat rson

(c) y oar th on gr pe

(b) e e u e eat rson

(d) Cannot be determined

38. If step IV of an input is 'e l a oo ou', then find the input.

(a) get will an spoon you

(c) net wit at noon you

(b) left wit at noon you

(d) Cannot be determined

39. Find step II for the following input. Input you must be agree

(a) ou ust e gree

(c) yo mus b agre

(b) yu must be ee

(d) Cannot be determined

Direction (Q. No 40) : The given information is followed by two statements. Read carefully and answer the given questions.

40. Many parents have written a plea to the administration department of school X to discontinue the rule of wearing ties to school.

A. The school has kept different coloured ties for different academic scorers as part of their uniform. Thus, the low scoring children of the school feel discriminated.

B. The sport uniform of the school does not have a tie which is to be worn only on Wednesday.

(a) Statement A weakens but statement B strengthens the argument

(b) Both statement A and Statement B weaken the argument

(c) Statement B weakens but statement A strengthens the argument

(d) Statement A strengthens the argument and statement B is a neutral statement

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41. Read the given information carefully and answer the given question.

Charities do not have charge VAT to customers. Therefore, charity stores can charge lower prices as compared to the other stores, which are not registered as charity.

- A. Charity stores pay less tax than Non-Charity stores.
- B. VAT leads to increment in prices of things.
- C. The stores recover their taxes from the customers.
- D. Since charities do not charge VAT, their products are of lower quality.

Which of the following can be inferred from the given statements ?

- (a) None of the given statements
- (b) Both C and D
- (c) Only C
- (d) Only A**

42. A box contains 10 green and 8 yellow balls. In how many ways, two balls of the same colour can be drawn ?

- (a) 73**
- (b) 36
- (c) 28
- (d) 54

43. Ruchi invested Rs. 1600 at the rate of compound interest for 2 yr. She got Rs. 1764 after the specified period. Find the rate of interest.

- (a)  $7\frac{1}{2}\%$
- (b) 10 %
- (c) 5 %**
- (d) 7 %

44. In five flats, one above the other, live five professionals. The professor has to go up to meet his IAS officer friend. The doctor is equally friendly to all and has to go up as frequently as go down. The engineer has to go up to meet his MLA friend above in whose flat lives the professor's friend. From the ground floor to the top floor, in what order do the five professionals live ?

- (a) Engineer, Professor, Doctor, IAS Officer, MLA
- (b) Professor, Engineer, Doctor, IAS Officer, MLA
- (c) IAS Officer, Engineer, Doctor, Professor, MLA
- (d) Professor, Engineer, Doctor, MLA, IAS Officer**

45. Five boys A, B, C, D and E are standing in a row, D is on the right of E. B is on the left of E, but on the right of A, B is on the left of C, who is standing on the extreme right. Who is standing in the middle ?

- (a) B
- (b) C
- (c) D
- (d) E**

46. The day before the day before yesterday is three days after Saturday. What day is it today ?

- (a) Tuesday
- (b) Wednesday
- (c) Thursday
- (d) Friday**

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47. A postman was returning to the post office which was in front of him to the North. When the post office was 100 m away from him, he turned to the left and moved 50 m to deliver the last letter at Shanti Villa. Then, he moved in the same direction for 40 m, turned to his right and moved 100 m. How many metres was he away from the post office ?

(a) 50

**(b) 90**

(c) 150

(d) 100

48. Interchanging + and  $\div$  and also the numbers 2 and 5, find the value of  $8+4\times 5\div 2-3$

(a) 2

(b) 4

**(c) 6**

(d) 8

49. Which one of the following numbers 587, 875, 695, 767, 867 is different from the other numbers, in accordance with some rule ?

(a) 695

(b) 767

**(c) 867**

(d) 875

50. Which one set of the following sets of numbers (3,5,19,13), (11,19,2,3), (3,29,2,13), (2,31,11,4) is different (if any) from the other sets, in accordance with some rule ?

(a) (3,5,19,13)

(b) (11,19,2,3)

(c) (3,29,2,13)

**(d) (2,31,11,4)**