1. In a certain code language, 'PREY' is coded as '4598' and 'REAP' is coded as '9456'. How is 'A' coded in that language?

    a) 4   b) 6   c) 9   d) 5

2. In a certain code language, 'LEMON' is written as 'ELMNO'. How will 'CLUSTER' be written in that language?

    a) CELRSTU   b) CLESRUT   c) LUCETRS   d) LCUTESR

3. A and B starts from the same point and walks 30 km in opposite directions to each other. A turns left and walks 10 km. B turns left and walks 10 km. How far (in km) are they from each other?

    a) $20\sqrt{10}$ b) $40\sqrt{5}$ c) 80   d) 60

4. Two pickup trucks X and Y start from the same place. Truck X travels in the East for 15 km and then turns right and travels 8 km. Meanwhile truck Y travels 7 km in west, then 3 km north, then 2 km west, and then it turns left and travels 11 km. Where is truck Y with respect to truck X?

    a) 6 km West   b) 24 km East   c) 6 km East   d) 24 km West

5. One morning after sunrise Rohit while going to the playground met Mohit at a crossing. Mohit's shadow was exactly to the right of Rohit. If they were face to face, which direction was Rohit facing?

    a) North   b) South   c) East   d) West

6. Six people A, B, C, D, E and F are sitting around a circular table facing the centre. C sits second to the right of D. A is an immediate neighbour of C. Only two people sit between F and A. B sits to the immediate right of F. Who sits third to the left of E?

    a) D   b) F   c) C   d) A

7. (i) Eight people E, F, G, H, I, J, K and L are seated around a square table-two on each side.

    (ii) There are three lady members and they are not seated next to each other.

    (iii) J is between L and F.

    (iv) G is between I and F.

    (v) H, a lady member, is second to the left of J.

    (vi) F, a male member, is seated opposite to E, a lady member.

    (vii) There is a lady member between F and I.

    Who among the following are the three lady members?

    a) E, H and J   b) E, G and J   c) G, H and J   d) None of these

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[1]

8. Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. P has an exam on Wednesday.

   Exactly 3 people have an exam between P and S. V has an exam immediately after T, and Q has an exam immediately before T. Only 3 people have an exam between U and T.

   How many people have an exam after Q?

   a) 3   b) 4   c) 1   d) 2

9. This question is based on the five, three-digit numbers given below.

   (Left) 190 735 494 761 781 (Right)

   (Example-697 - First digit = 6, second digit = 9 and third digit = 7)

   (NOTE: All operations to be done from left to right.)

   What will be the result if the second digit of the highest number is subtracted from the second digit of the lowest number?

   a) –1   b) 2   c) –2   d) 1

10. Choose the set in which the numbers are related in the same way as are the numbers of the following sets.

   (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

   (29, 41, 53)

   (37, 49, 61)

   a) (53, 65, 77)   b) (67, 79, 101)   c) (36, 48, 50)   d) (40, 52, 74)

11. If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 5637482, how many digits will appear more than once in the new number thus formed?

   a) 5   b) 4   c) 2   d) 3

12. Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

   PK23, OJ34, NI45, MH56, ?

   a) LH67   b) LG68   c) LG67   d) LH68

13. Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. T has an exam on Wednesday. Exactly 4 people have exams between S and R, neither of whom has an exam on Monday. Q has an exam immediately before and V has an exam immediately after P. U has an exam immediately before S. Who has an exam on Sunday?

   a) U   b) P   c) R   d) S

14. Refer to the number and symbol series given below and answer the question that follows. Counting to be done from left to right only.

    (NOTE: All numbers are single digit numbers only.)

    (Left) @ 2 % * 4 2 & £ % 1 £ & 9 7 & 9 7 $ 9 1 $ 2 (Right)

    How many such symbols are there each of which is immediately preceded by a number and also immediately followed by a symbol?

    a) 2　　　　　　　　b) 5　　　　　　　　c) 3　　　　　　　　d) 4

15. Seven friends, C, D, E, F, G, H and P, are sitting in a row facing north. Only three people sit between F and C. P sits to the immediate left of C. No one sits to the right of E. Only two people sit between E and P. H sits to the immediate right of D. How many people sit between G and H?

    a) Three　　　　　　b) Two　　　　　　　c) One　　　　　　　d) Four

16. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

    Statements:

    All chains are bracelets.

    All bracelets are rings.

    Some rings are tops.

    Conclusions:

    I. All chains are rings.

    II. Some tops are chains.

    a) Only conclusion (I) follows　　　　　　　　b) Neither conclusion (I) nor (II) follows

    c) Both conclusions (I) and (II) follow　　　　　d) Only conclusion (II) follows

17. Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

    (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

    a) FHC　　　　　　　b) LNJ　　　　　　　c) HJE　　　　　　　d) JLG

18. In a certain code language,

    A + B means 'A is the son of B',

    A – B means 'A is the sister of B',

    A × B means 'A is the wife of B' and

    A ÷ B means 'A is the father of B'.

   Based on the above, how is E related to K if 'E ÷ F – G × H + K'?
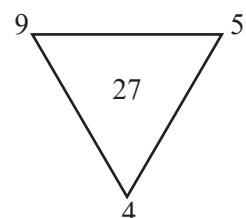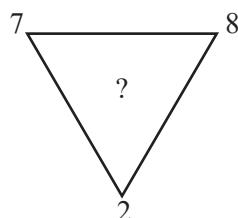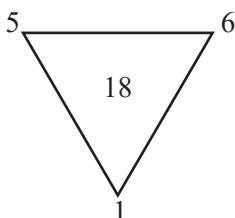
    a) Wife's brother　　b) Wife's father　　　c) Son's wife's father　　d) Son's wife's brother

19. Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?

    # : HNV :: GVO : %

    a) # = FNW, % = QHT   b) # = DNU, % = JHS   c) # = DMU, % = SWT   d) # = FMU, % = IWP

20. Find the missing term from the given figure.

    a) 32   b) 39   c) 41   d) 27

21. 5th February 2018 is a Monday. 8th April 2019 will be a –

   a) Wednesday   b) Tuesday   c) Monday   d) Sunday
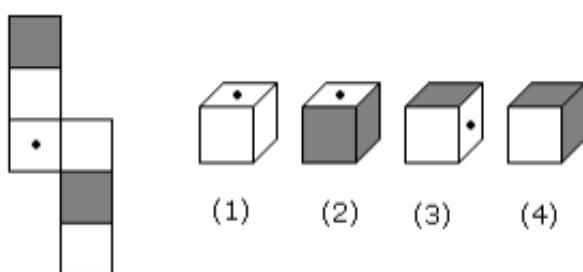
22. An accurate clock shows 6 O' clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 4 O'clock in the afternoon?

    a) 200⁰   b) 300⁰   c) 320⁰   d) 180⁰

23. If the time in clock is 7:27. What is the time in the mirror?

    a) 12:33   b) 4:33   c) 12:37   d) 4:23

24. The figure given on the left hand side in each of the following questions is folded to form a box. Choose from the alternatives (1), (2), (3) and (4) the boxes that are similar to the box formed.

    a) 2 and 3 only   b) 1, 3 and 4 only   c) 2 and 4 only   d) 1 and 4 only

25. In the following question, select the missing number of the given series.

    10, 9, 17, -10, 54, ?

    a) – 67   b) – 71   c) – 82   d) – 103

26. Choose the number from among the given options that can replace the question mark (?) in the following series.

    10, 21, 35, 56, 90, 145, 231, 360, ?

    a) 546   b) 463   c) 564   d) 436

27. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

mc_bcm_cbbc_m_bbcm

a) mccb   b) bcmb   c) cbmb   d) bmmc

28. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

ABCD, CUKA, ENSX, GGAU, ?

a) IQRT   b) MNOQ   c) IRQT   d) IZIR

29. X introduces Y saying, "He is the husband of the granddaughter of the father of my father". How is Y related to X?

a) brother   b) uncle   c) co-brother   d) brother-in-law

30. There are six members, P, Q, R, S, T and U, in a family. T is the brother of P's husband. U is the mother of T. Q is the daughter of S and P and the granddaughter of R. How is R related to T?

a) Father   b) Son   c) Brother   d) Uncle

31. Consider the given statement as true and decide which of the given conclusions can definitely be drawn from the given statements.

Statement:

No dog is a cat. Some cats are rats. All rats are pigs.

Conclusions:

I. All dogs are rats.

II. All pigs are rats.

III. Some pigs are cats.

IV. No pig is a dog.

a) Only conclusion I and II follows   b) Only conclusion III follows

c) Only conclusion I and III follows   d) Only conclusion IV follows

32. Using the expression VWY9PONI5FSLUDTG61 A J, find the missing term from the following series.

9WA, OOD, _____, FD9
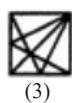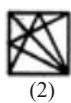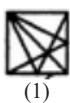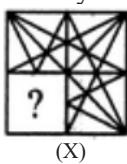
a) NSI   b) IF5   c) FI5   d) NFL

33. Identify the figure that completes the pattern.
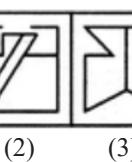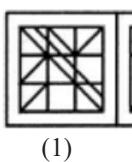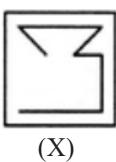
a) 1   b) 2   c) 3   d) 4

34. Find out the alternative figure which contains figure (X) as its part.


a) 1   b) 2   c) 3   d) 4

35. Choose the alternative which closely resembles the mirror image of the given combination.

    TARAIN1014A
    (1) AÞ↑O↑NIAЯAⱢ   (2) A↑O↑ÞNIAЯAT
    (3) A↑O↑ÞTAЯAIN   (4) AÞ↑O↑NIAЯAT

    a) 1   b) 2   c) 3   d) 4

36. Choose the alternative which closely resembles the water image of the given combination.

    ab45CD67
    (1) ᵃbᏰꙄCDꬴⱢ   (2) ꙅbᏰꙄCDꬴⱢ
    (3) ꙅbᏰꙄCD9Ⱡ   (4) ꙅbᏰꙄCDꬴⱢ

    a) 1   b) 2   c) 3   d) 4

37. Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

    a) UZP   b) HMB   c) MRH   d) TYO

38. Pick the odd one.

    a) Port Blair   b) Puducherry   c) Indore   d) Karavatti

39. A statement followed by some conclusions are given below.

    Statement:

    Based on his performance, Rajesh got a poor rating in his office.

    Conclusions:

    I. Rajesh did not perform well.

    II. The rating given to Rajesh was not up to the mark.

    Find which of the given conclusions logically follow from the given statement.

    a) Only conclusion I follows   b) Only conclusion II follows

    c) Both conclusion I and II follow   d) Neither conclusion I nor II follows

40. A statement followed by two courses of action are given below. Find the appropriate answer.

    Statement: There have been many instances of derailment of trains due to landslides in the hilly areas which caused loss of many lives.

    Courses of Action:

    I. The railway authority should arrange to deploy pilot engines before the movement of passenger trains in the hilly areas to alert the trains in case of any landslide.

    II. The railway authority should strengthen the hill slopes by putting iron meshes so that the loose boulders do not fall on the track.

    a) Only I follows   b) Only II follows   c) Either I or II follows   d) Both I and II follow

    _____