MAT

1. As 'Clock' is related to 'Second' in the same way ' Calendar' is related to
(1) Time (2) Date (3) Month (4) Year

Direction: In Question Nos. **2** and **3**, there is certain relation between terms in the left side of the sign : : Similar type of relation is there between the two terms in the right side of the Sign : : . Write the correct option from the given alternatives:

2. Moon : Satellite : : Earth : ?
(1) Sun (2) Solar system (3) Planet (4) Star

3. 7 : 56 : : 9 : ?
(1) 81 (2) 90 (3) 99 (4) 108

Direction: In Question Nos. **4** and **5** except one alternative other alternatives are alike in a certain way. Select the odd alternative which is different from others.

4. (1) Teacher (2) Lecturer (3) Student (4) Professor

5. (1) Square meter (2) Cube root (3) Hectare (4) Acre.

6. Find the missing group of number letter in the following series
3*F*, 6*G*, 11*I*, 18*L*, ?
(1) 21 *N* (2) 25 *P* (3) 27 *P* (4) 27 *N*

7. In the series 6,4,1,2,2,8,7,4,2,1,5,3,8,6,2,1,3,2,8,6 how many pairs of successive numbers have a difference of 2 ?
(1) 4 (2) 5 (3) 6 (4) 7

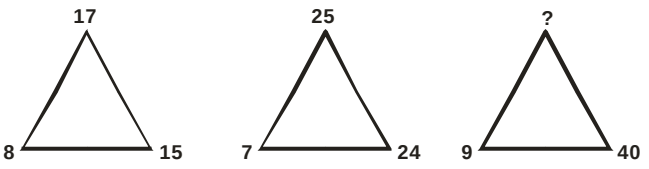
8. The missing number in the series $\frac{3}{8},\frac{8}{26},\frac{?}{},\frac{18}{242},\frac{23}{728}$ is.
(1) $\frac{11}{80}$ (2) $\frac{13}{80}$ (3) $\frac{11}{81}$ (4) $\frac{15}{81}$

9. How many whole numbers are there from 1 to 100 which have at least one digit as 4 and are divisible by 4 ?
(1) 6 (2) 7 (3) 10 (4) More than 10

10. Rajesh pointing to his son's photo said to Shakuntala, " his mother is daughter of your mother". How is Shakuntala related to Rajesh?
(1) Sister (2) Daughter (3) Sister – in – law (4) Aunt.

11. Suresh, Rajesh, Ashok, Ajay and Lalit are five friends. Lalit is older than only three of his friends. Ajay is younger to Ashok and Lalit. Rajesh is older than Suresh only. Who amongst them is the eldest?
(1) Suresh (2) Ajay (3) Lalit (4) Ashok

12. In the following, which number will come in place of question mark sign?



(1) 41 (2) 42 (3) 45 (4) 47

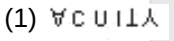
13. In a certain code 'SEDATE' is written as '957315' and 'DEPOSITE' is written as '75289415', then how will TEAD be written in that code?
(1) 1573 (2) 1537 (3)7395 (4) 4359

14. In a certain code 'STUDENT' is written as 'RSTEDMS', then how will TEACHER' be written in that code?
(1) SZBDGDQ (2) SZDDGEQ (3) SDZDGDQ (4) SDBDGDS

15. A is son of C, C and Q are sisters. Z is mother of Q, If P is son of Z then how is P related to A?
(1) Grandfather (2) Maternal Uncle (3) Brother (4) Sister

16. If '+' means '–' ; '×' means '÷' ; '÷' means ' +' and '–' means '×', then what is the value of the expression 126 × 9 – 5 + 32 ÷ 16 ?
(1) 18 (2) 54 (3) 86 (4) None of these

17. If '<' means '–' ; '>' means '+' ; ' =' means '×' and '@' means '÷' , then what would be the value of 120 > 18 @ 9 < 3 ?
(1) 119 (2) 121 (3) 116 (4) None of these

18. Water image of **ACUITY** is
(1)  (2) (3) (4)

19. Mirror image of **WONDER** is.
(1) (2) R E D N O W (3) (4)

Questions (20 – 23)
Following are the criteria for selection of candidates for Computer Operator in a company:
i) have passed Graduate with at least 60% marks.
ii) have passed PG Degree/ Diploma in Computer Application with at least 65% marks.
iii) have passed Computer skill test with at least 55% marks.
iv) age is between 24 years to 30 years as on date 01/09/2016.

If the candidate satisfies all conditions but except
a) Condition (ii), If at least 70%, marks in Computer skill test, then should be referred to G.M. Administration.
b) Condition (iv), If at least two years, experience in IT, then should be referred to G.M., Personnel.

Direction : Give answer to question Nos. **20** to **23** on the basis of the given criteria and select the option as follows:
(1) If candidate is selected
(2) If referred to G.M., Administration
(3) If referred to G.M., Personnel
(4) If candidate is not selected.

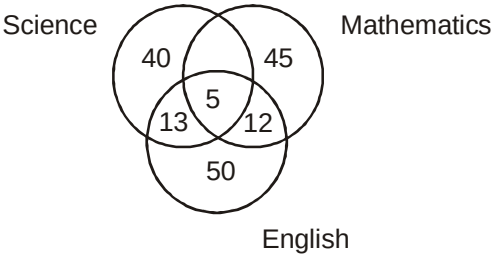
20. Sushila passed B.A. with 68% and PG Diploma in Computer Application with 72%. She secured 70% marks in Computer skill test and her date of birth is 8 February, 1991.

21. Mohit Secured 58% marks in B.Sc. and PG Diploma in Computer Application. His date of birth is 14 August, 1993. He secured 56% marks in Computer skill test.

22. Prakash secured 66% marks in B.C.A. and 61% marks in M.C.A. He obtained 82% marks in Computer skill test. His age is 26 years on May 1, 2016.

23. Ajay secured 61% marks in B.Sc. and 65% marks in M.C.A He has five year experience in I.T. and 60% marks in Computer skill test. His date of birth 1 January, 1986.

24. 500 students were examined in the subjects Science, Mathematics and English in the following Venn diagram, numbers represent the number of students failed in the subjects. The percentage of students who failed at least in two subjects is.



(1) 7% (2) 8% (3) 27% (4) 35%

25. The present age of father is seven times of his son. After eight years, age of father is three times of his son, then the present age of father is.

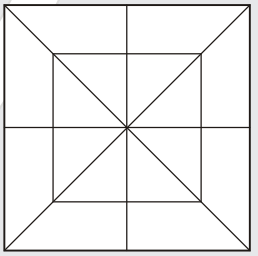
(1) 4 years (2) 21 years (3) 28 years (4) 35 years

26. Select the correct option from the following relation in logical sequence of generation

a. Son
b. Maternal Grandfather
c. Father
d. Grandson

(1) b,c,a,d (2) c, a, b, d (3) b, c, d, a (4) a, d, b, c.

27. How many triangles are there in the following diagram ?

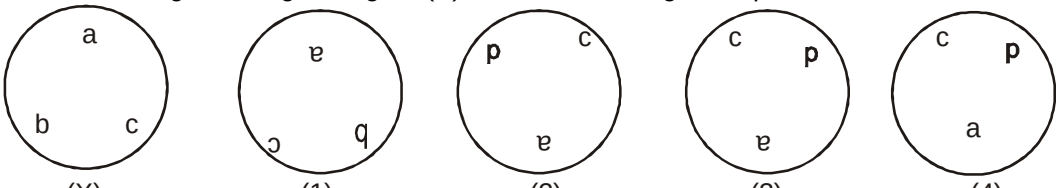


(1) 28 (2) 30 (3) 32 (4) None of these

28. How many parallelograms are there in the following figures?

(1) 20 (2) 24 (3) 28 (4) 30

29. The water image of the given figure (X) from the following four options is



30. Arrange the following in a logical order:

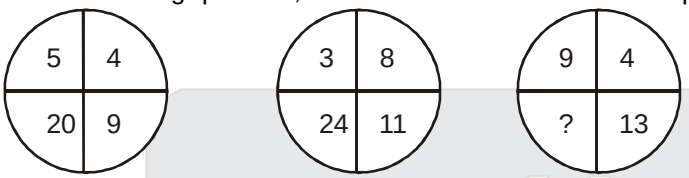
a. Milk b. Butter C. Cow D. Curd

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

31. If the first and third letters in the word 'NECESSARY' are interchanged, similarly the fourth and sixth letters and the seventh and ninth letters are exchanged, which of the following letters would be the seventh letter from the right in newly framed word?
(1) A (2) Y (3) C (4) N

32. If 25th date of any month is Tuesday, then which day will be on 2nd date of that month?
(1) Monday (2) Sunday (3) Wednesday (4) Thursday

33. In the following question, which number will come at the question mark sign?



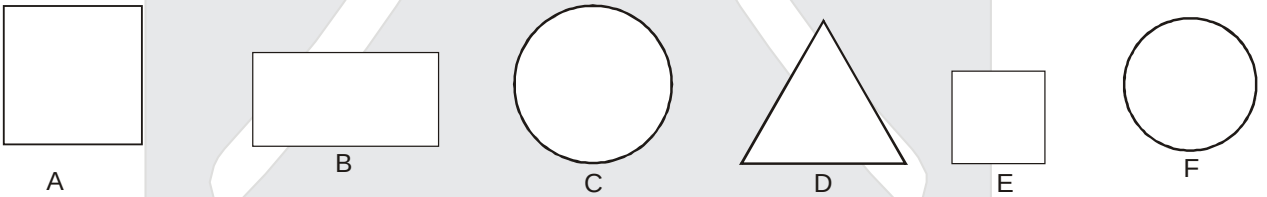
(1) 25 (2) 30 (3) 26 (4) 36

34. Which one of the following words cannot be formed from the letters of the world INDEPENDENT?
(1) DENT (2) DEER (3) TIND (4) PIND

35. Suresh walks 100 m towards east from his home, then turning to his right he walks 50 m and turning right he walks 80 m. Again turning to right he walks 50 m. How far is Suresh from his home now?
(1) 10 m (2) 20 m (3) 30 m (4) 40 m

36. Except one option, other options are alike in a certain way. Which is the odd option?
(1) P R T V X Z (2) C E G I K M (3) Z B D F H J (4) M O R T V X

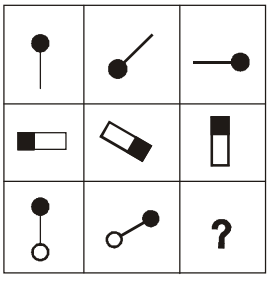
37. In which option there is no similar group ?

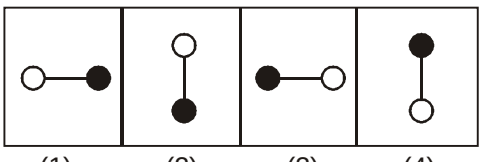


(1) AF, FC, BC (2) BC ; ED; AC (3) CA; FD; EA (4) DC; AE; BF

38. If we arrange the following words as per English dictionary, then which word come on second place from the right?
SUE, RAG, FIN, PUT, LOW
(1) PUT (2) LOW (3) SUE (4) RAO

39. Which is the alternative that completes the figure matrix?

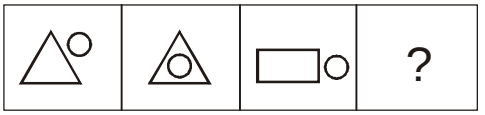




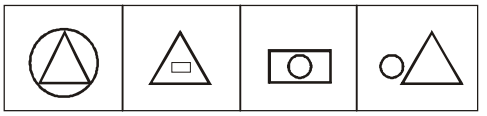
40. A man is facing north. He turns 90º in the anti- clockwise direction and then another 180º in the clockwise direction. Which direction is he facing now?
(1) East (2) South - East (3) West (4) North - East

Direction : In question Nos. **41** and **42** there are two sets of figures. Figures A, B, C and C are problem – figure and figures 1,2,3 and 4 are answer – figures. There is definite relationship between figure A & B establish a similar relationship between C and D by choosing a figure D from the answer – figure.

41.

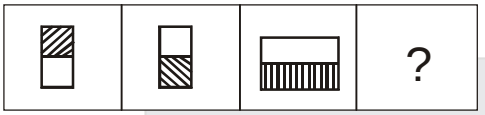


(A) (B) (C) (D)

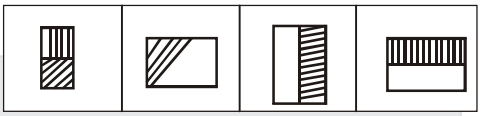


(1) (2) (3) (4)

42.

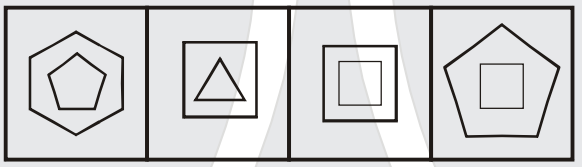


(A) (B) (C) (D)



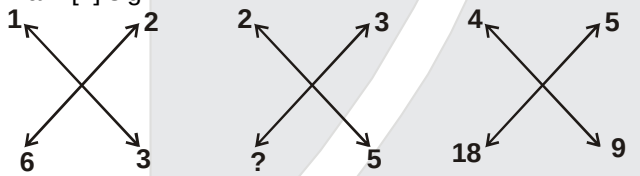
(1) (2) (3) (4)

43. In the question four figure are given. One of them does not correlate with the rest of the figures. Find out the odd figure.



(1) (2) (3) (4)

44. In the following figure digits follow a certain pattern. Which number will come in place of question mark [?] sign?

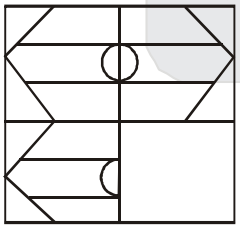


(1) 6 (2) 8 (3) 10 (4) 14

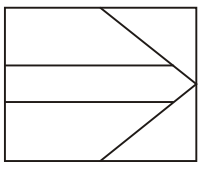
Question (45 – 47)

Direction : Which is the alternatives that completes the figure matrix ?

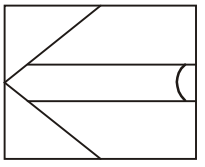
45.



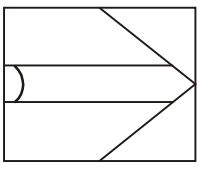
(1)



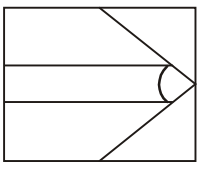
(2)

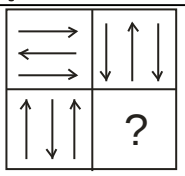


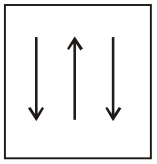
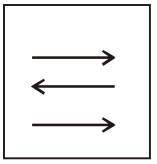
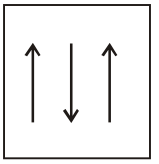
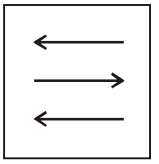
(3)

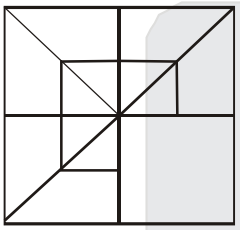


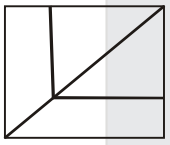
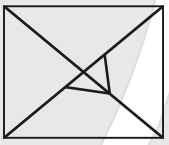
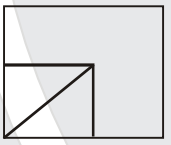
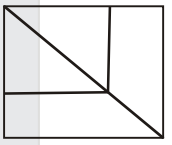
(4)



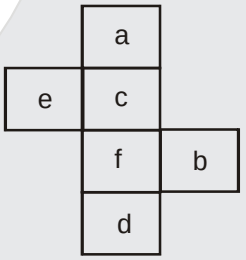
46. 

(1) 
(2) 
(3) 
(4) 

47. 

(1) 
(2) 
(3) 
(4) 

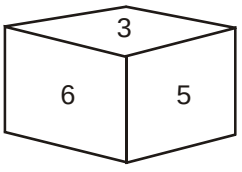
48. Choose the option, which is opposite to the letter b on the box, that will be formed when figure (X) is folded;

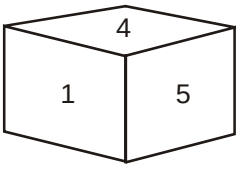


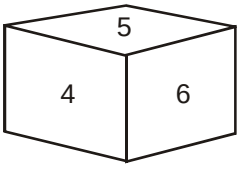
(x)

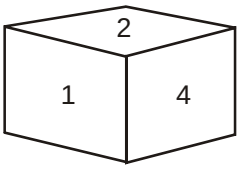
(1) e (2) a (3) c (4) d

49. Following are four views of a standard die. Which digit will come opposite to the digit 3?



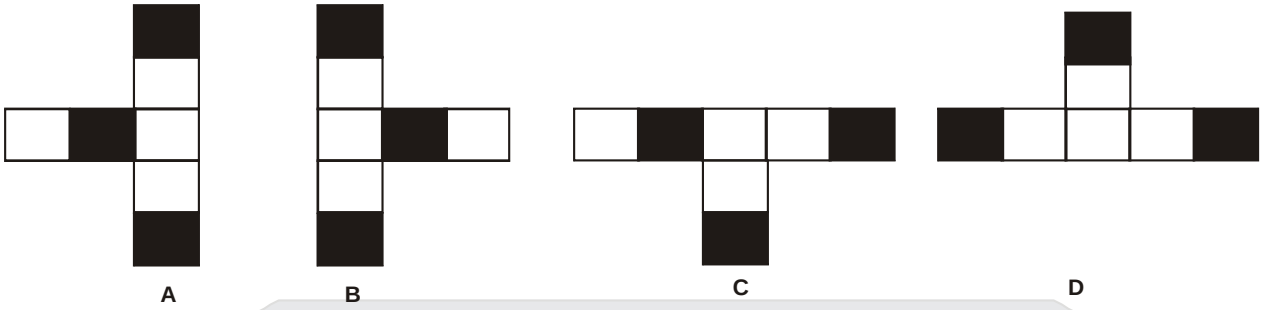






(1) 1 (2) 2 (3) 4 (4) 5

50. Select the option which is odd one out, from four given figures A,B, C and D :



(1) A (2) B (3) C (4) D

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Test Dates

20th Nov 16 | 27th Nov 16

11th Dec 16 | 25th Dec 16 | 15th Jan 17

How to get Admission Packet

(a) **Online:** Visit www.resonance.ac.in, and buy ONLINE by paying through Credit/Debit Card & Net Banking. | (b) **In Person:** Through Cash/ DD made in favour of 'Resonance', payable at Kota submit at any of the Resonance Study Centres. | (c) **By Post/ Courier:** Make a DD/Pay Order of required amount in favour of 'Resonance', payable at Kota and send it to at Kota only. | (d) COD (sms RESO Your City Name to 56677).

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