Direction (Q. Nos. 1 & 2): Choose a correct sequence of ascending order of magnitude.

- 1. 2^{12} , 3^8 , 4^7 , 10^3 :
 - (A) 2^{12} , 3^8 , 10^3 , 4^7
 - (B) 10^3 , 2^{12} , 4^7 , 3^8
 - (C) 10^3 , 2^{12} , 3^8 , 4^7
 - (D) 10^3 , 4^7 , 2^{12} , 3^8
- 2. Trillion, Million, Billion, Thousand:
 - (A) Trillion, Thousand, Billion, Million
 - (B) Trillion, Million, Billion, Thousand
 - (C) Thousand, Billion, Million, Trillion
 - (D) Thousand, Million, Billion, Trillion

Direction (Q. Nos. 3 & 4): In each of the following number series, a wrong number is given. Find out the wrong number.

- 3. 2, 6, 12, 18, 30, 42;
 - (A) 6
 - (B) 12
 - (C) 18
 - (D) 30

- 4. 2, 3, 5, 7, 9, 11, 13, 17, 19:
 - (A) 2
 - (B) 9
 - (C) · 11
 - (D) 19
- 5. In the series:

how many pairs of successive numbers have a difference of 2 each?

- (A) 3
- (B) 4
- (Ċ) 5
- (D) 6
- 6. Lata ranked eighth from the top and thirty ninth from the bottom in a class. How many students are there in a class?
 - (A) 45
 - (B) 46
 - (C) 47
 - (D) 48

Direction (Q. Nos. 7 to 9): Which of these jumbled words is the odd one out?

- 7. (A) FARFIGE
 - (B) CWOR
 - (C) CIENCKH
 - (D) CHTOSIR
- 8. (A) ART
 - (B) TAC,
 - (C) GOD
 - (D) TAH
- 9. (A) EHOSU
 - (B) EMEPLT
 - (C) QUOMSE
 - (D) HURHCC

Direction (Q. Nos. 10 & 11): Six persons

A, B, C, D, E, F are sitting around a
circular table at equal distance from each
other. A is sitting two place right of B who
is exactly opposite to C. C is on
immediately to the left of D, who is exactly
opposite to E.

- 10. Who is the only person sitting between A and B?
 - (A) F
 - (B) . E
 - (C) D
 - (D) C
- 11. The angle subtended by C and F at the centre of the table is:
 - (A) 60°
 - (B) 120°
 - (C) 90°
 - (D) 180°
- 12. Lata is twice as old as Gita.

 Three years ago, she was three times as old as Gita. How old Lata is now?
 - (A) 6 years
 - (B) 8 years
 - (C) 10 years
 - (D) 12 years

- 13. A man is facing north-west. He turns 90° in the clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now?
 - (A) North
 - (B) South
 - (C) East
 - (D) West
- 14. How many such pairs of letters are there in the word 'ENTHUSIASTIC' each of which has as many letters between them in the word as there are between them in English alphabet?
 - (A) 3
 - (B) 4
 - (C) 5
 - (D) None of the above

Direction (Q. Nos. 15 & 16): Study the following arrangement carefully

and answer the questions given below.

IT#AJ7B\$D2K®EL5HPE%

- 15. How many such symbols are there in the above arrangement, each of which is immediately followed by a vowel and not immediately preceded by a number?
 - (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
- 16. How many such numbers are there in the above arrangement, each of which is immediately preceded by a letter and immediately followed by a symbol?
 - (A) None.
 - (B) One
 - (C) Two
 - (D) Three

Direction (Q. Nos. 17 & 18): Each question below has a set of two statements. Each statement has three segments. Choose the alternative where the third segment in a statement can be logically deduced using both the preceding two segments.

- Some boys are tall; all tall 17. (i) persons are smart; some boys are smart.
 - Some boys are tall; some boys (ii) are smart ; boys are either tall or smart.
 - (A) Only (i)
 - (B) Only (ii)
 - Neither (i) nor (ii) (C)
 - None of the above (D)_
- All coins are crows; some 18. (i) crows are pens, no pen is coin.
 - All coins are crows; some (ii) crows are pens; some coins are pens.
 - (A) Only (i)

- (B) Only (ii)
- Neither (i) nor (ii) (C)
- Both (i) and (ii) (D)

Direction (Q. Nos. 19 & 20): From a group of 5 Ministers A, B, C, D, E and 4 Officers L, M, N, O a team of 5 member is chosen under the following conditions.

- C cannot go with O (i)
- A and D have to be together (ii)
- D cannot go with L (iii)
- C and M have to be together (iv)
- B and N have to be together (v)
- B cannot go with E (vi)
- If the team consists of 3 Officers, then 19. the members of the team are:
 - **LMNBC** (A)
 - MNOAD (B)
 - **LMNBD** (C)
 - **LMOAE** (D)

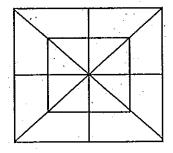
(Turn over)

20. If b is a member of the team	22. Element: Argon:: Compound:?
and the team consists of 4 Ministers,	(A) Copper
then the other members of the team	(B) Water
are:	(C) Hydrogen
(A) ABCM	(D) Neon
(B) ACEN	23. Resistance: Ohm:: Potential:?
(C) ACEM	(A) Ampere
(D) None of the above	(B) Joule
División (O. N	(C) Volts
Direction (Q. Nos. 21 to 25): There is a	(D) Watts
certain relationship between the two words on the left hand side of the sign ::,	24. Hostel : Warden : : Museum : ?
which of the given alternatives is related	(A) Archaeologist
to the third word in the same way as the	(B) Conductor
second word is related to the first word?	(C) Curator
	(D) Servant
21. Potato : Stem : : Turnip : ?	25. Cat : Kitten : : Lion : ?
(A) Flower	(A) Cub
(B) Vegetable	(B) Calf
(C) Root	(C) Pony
(D) None of the above	(D) Lamb

26. In a correctly worked out multiplication problem below, each
letter represents a different
digit. What is the value
of X?

- (A) 3
- (B) 4
- (C) 5
- (D) 6
- 27. In a certain language, if BHUBANESWAR is coded as CIVCBOFTXBS, how is CUTTACK coded?
 - (A) DWXXBDI
 - (B) DUUVBDL
 - (C) DVUUBDL
 - (D) BVUUBDL

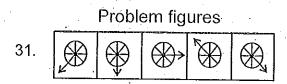
Direction (Q. Nos. 28 to 30): Refer to the figure below and answer the questions that follow.

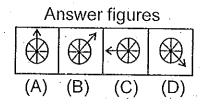


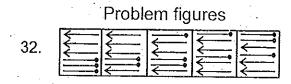
- 28. How many triangles are there in the given figure?
 - (A) 12
 - (B) 16
 - (C) 20
 - (D) 32
- 29. How many squares are there in the given figure?
 - (A) 6
 - (B) 8
 - (C) 10
 - (D) 12
- 30. Determine the number of straight lines in the figure :
 - (A) 10

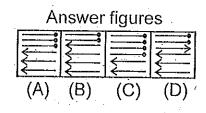
- (B) 12
- (C) 14
- (D) 16

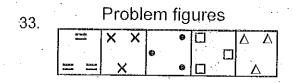
Direction (Q. Nos. 31 to 34): In each of the questions given below which one of the four answer figures should come after the problem figures, if the sequence were continued?

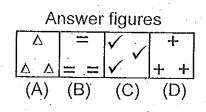


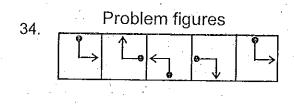


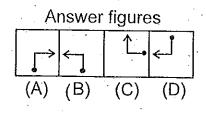








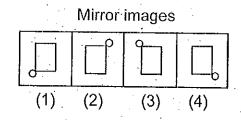




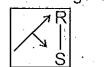
Direction (Q. Nos. 35 to 38): Choose the correct mirror image of the problem figure when the mirror is placed in R-S position.

35. Problem figure

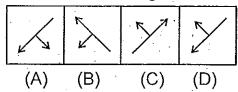




36. Problem figure



Mirror images



37. Problem figure



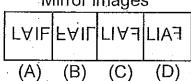
Mirror images

WOUTH	WONTH	HTUOW	HTUOM
(A)	(B)	(C)	(D)

38. Problem figure

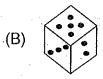


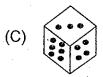
Mirror images



39. The total number of dots on opposite faces of a die is always 7. Find the correct figure from the given alternatives.









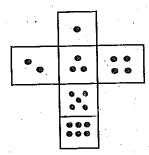
40. Two positions of a die with 1 to 6 dots on its faces are shown below.How many dots are there on the face opposite the face having 2 dots?





- (A)
- (B) 3

- (C) 4(D) 6How many dots lie opposite the second content of the composite of the co
- 41. How many dots lie opposite the face having three dots, when the given figure is folded to form a cube?



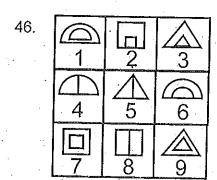
- (A) 2
- (B) 4
- (C) 5
- (D) 6

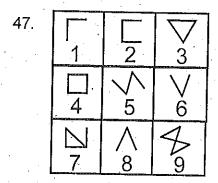
Direction (Q. Nos. 42 to 45): A cube is painted black on all six faces is cut into 27 small cubes of equal sizes.

- 42. How many small cubes have only one face painted?
 - (A) 4
 - (B) 6

- (C) 8
- (D) 12
- 43. How many small cubes have only two faces painted?
 - (A) 4
 - (B) 6
 - (C) 8
 - (D) 12
- 44. How many small cubes have only three faces painted?
 - (A) 2
 - (B) 4
 - (C) 6
 - (D) 8
- 45. How many small cubes do not have any of the faces painted?
 - (A) '
 - (B) 4
 - (C) 8
 - (D) None of the above

Direction (Q. Nos. 46 to 48): All nine figures of each question are numbered from 1 to 9. Arrange them into 3 groups according to their common properties.





- (A) (1, 2, 6, 8); (3, 4, 9); (5, 7)
- (1, 2, 4); (3, 8, 9); (4, 5, 7)

- (1, 8, 6); (2, 3, 5); (4, 7, 9)(C)
- (1, 3, 4); (2, 8, 9); (5, 6, 7) (D)

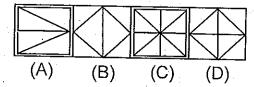
18.	φ 1	\$ 2	λ 3
	α 4	X 5	£ 6
		₹ 8	IV 9

Direction (Q. Nos. 49 & 50) : The problem figure is embedded in one of the four answer figures. Find the correct answer figure which contains the problem figure.

49. Problem figure



Answer figures



50. Problem figure



Answer figures

