2nd
*i*RAO ▼18
International Reasoning & Aptitude Olympiad

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CLASS : 12   SAMPLE QUESTIONS

The Actual Question Paper Contains 50 Questions. The Duration of the Test Paper is 60 Minutes.

Directions (Questions 1 & 2): Study the following information carefully and answer the questions given below:

Five persons - Amita, Babu, Chanda, Diwakar and Ishu - are travelling by a train. Amita is the mother of Chanda, who is the wife of Ishu. Diwakar is the brother of Amita and Babu is the husband of Amita.

1.   How Babu is related to Ishu?
(A)   Brother-in-law
(B)   Father-in-law
(C)   Father
(D)   Mother-in-law
(E)   None of these

2.   How Amita is related to Ishu?
(A)   Mother-in-law
(B)   Niece
(C)   Sister
(D)   Mother
(E)   None of these

3.   A, B, C, D, E and F, not necessarily in that order, are sitting in six chairs regularly placed around a round table. It is observed that A is between D and F, C is opposite D, D and E are not on neighbouring chair. Which one of the following must be true?

(A)   A is opposite B
(B)   D is opposite E
(C)   C and B are neighbours
(D)   B and E are neighbours
(E)   None of these

4.   Consider the series given below, and find the next term.
4 / 12 / 95, 1 / 1 / 96, 29 / 1 / 96,
26 / 2 / 96, _____.
(A)   24 / 3 / 96
(B)   25 / 3 / 96
(C)   26 / 3 / 96
(D)   27 / 3 / 96
(E)   None of these

5.   Which letter will replace the question mark (?) in the following matrix?

D	M	V
F	P	Z
H	S	?

(A)   D
(B)   C
(C)   I
(D)   G
(E)   None of these

6. **Study the following information and answer the given question.**

Point B is 12 metre South of point A, Point C is 24 metre East of point B. Point D is 8 metre South of point C, point D is 12 metre East of point E and point F is 8 metre North of point E.

Now, if a man is standing facing North at point C, how far and in which direction is point F?

- (A) 12 m west
- (B) 24 m east
- (C) 12 m east
- (D) 24 m west
- (E) None of these

*Directions(Questions 7 & 8): In the following questions, the symbols @, #, %, $ and * are used with the following meanings as illustrated below.*

'A @ B' means 'A is not smaller than B'

'A # B' means 'A is neither smaller than nor equal to B'

'A % B' means 'A is neither smaller than nor greater than B'

'A $ B' means 'A is not greater than B'

'A * B' means 'A is neither greater than nor equal to B'

Now in each of the following questions, assuming the given statements to be true, find the correct option for the given conclusions.

7. **Statements:**

C#D, A@B, D*E, B%C

Conclusion:

- (1) A*E
- (2) A@E
- (A) Only conclusion 1 is true
- (B) Only conclusion 2 is true
- (C) Either conclusion 1 or 2 is true
- (D) Neither conclusion 1 nor 2 is true
- (E) Both conclusions 1 and 2 are true

8. **Statements:**

I%J, G$H, H*I, H@K

Conclusion:

- (1) I*J
- (2) G@K
- (A) Only conclusion 1 is true
- (B) Only conclusion 2 is true
- (C) Either conclusion 1 or 2 is true
- (D) Neither conclusion 1 nor 2 is true
- (E) Both conclusions 1 and 2 are true

Directions (Questions 9 & 10): Study the following information to answer the given questions.

A test with five sections namely Quant, Reasoning, English, Computer and GA has to be proofread in 6 hours where one hour needs to be spent on each section.

A break of one hour has to be taken in the third or the fourth hour. Proofreading cannot start with Quant and has to end with English. Computer has to immediately follow Reasoning with no break in-between. Quant cannot be done immediately after Computers. Quant has to immediately follow GA with no break in-between.

9. **In which hour the break is to be taken?**

- (A) Sixth
- (B) Fourth
- (C) Fifth
- (D) Third
- (E) cannot be determined

10. **Which section is to be proofread immediately after GA?**

- (A) English
- (B) Computers
- (C) Quant
- (D) Reasoning
- (E) English or Computers

Directions (Questions 11 & 12): Study the following information carefully to answer given questions.

A building has seven floors numbered one to seven, in such a way that the ground floor is numbered one, the floor above it is numbered two and so on such that the topmost floor is numbered seven. One out of seven people viz. Koyal, Naina, Dimple, Shruti, Payal, Arti and Anjali lives on each floor. Koyal lives on fourth floor. Payal lives on the floor immediately below Arti's floor. Arti does not live on the second or seventh floor. Dimple does not live on an odd numbered floor. Naina does not live on a floor immediately above or below Dimple's floor. Shruti does not live on the topmost floor. Anjali does not live on any floor below Payal's floor.
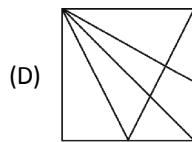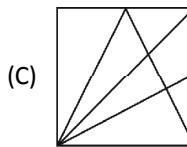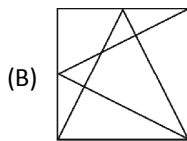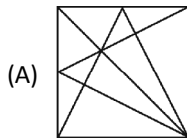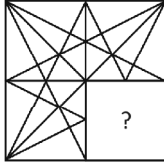
11. **Who lives on the topmost floor?**

- (A) Dimple
- (B) Shruti
- (C) Anjali
- (D) Koyal
- (E) Naina

12. **Who lives between Arti and Naina?**

- (A) Payal
- (B) Koyal

(C) Shruti

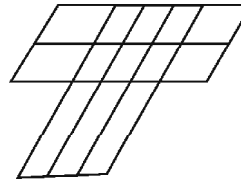(D) Dimple

(E) Anjali

13. Which one of the alternative figures will complete the figure pattern?

(A)

(B)

(C)   (D)

(E) None of these

14. How many parallelograms are there in this figure?

(A) 49

(B) 46

(C) 44

(D) 39

(E) None of these

15. Consider the following statements.

1. *Either A and B are of the same age or A is older than B.*

2. *Either C and D are of the same age or D is older than C.*

3. *B is older than C.*

Which of the following conclusions can be drawn from the given statements?

(A) A is older than B

(B) B and D are of the same age

(C) D is older than C

(D) A is older than C

(E) None of these

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ANSWERS
1. (B) 2. (A) 3. (D) 4. (B) 5. (A) 6. (A) 7. (C) 8. (D) 9. (D) 10. (C)
11. (C) 12. (A) 13. (A) 14. (D) 15. (D)