

**\*Note:** These questions are only indicative to demonstrate the test pattern.

## *Sample Questions for class-X*

### *1-Aptitude Test*

#### Straight Objective Type

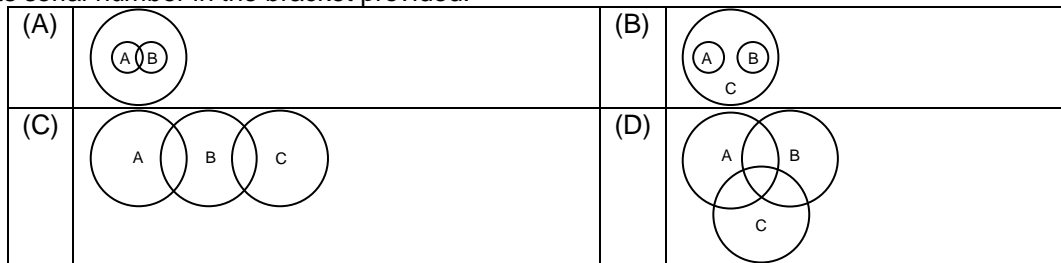
*This Section contains 45 multiple choice questions numbered 1 to 45. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

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**Directions: (Q. 1 to 3):** In each of the following questions various terms of the number series are given with one term missing. Choose the correct answer out of the given alternatives.

1. 17, 18, 22, 31, 47, ?  
 (A) 60 (B) 70  
 (C) 62 (D) 72
2. 4, 13, 40, 121, ?  
 (A) 264 (B) 284  
 (C) 364 (D) 346
3. 19, 25, 42, 71, 113, ?  
 (A) 153 (B) 169  
 (C) 186 (D) 196

**Directions (Q. 4 to 5):** Each of the questions contains three objects. The relationship among these three objects can be represented by one of the venn diagrams below. Identify the appropriate diagram and write its serial number in the bracket provided.

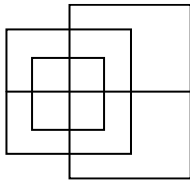


4. Dogs, Pets, Cats.
5. Male, Father, Brother.
6. If each of the letter in the English alphabet is assigned odd numerical value beginning coding A = 1, B = 3 and so on. What will be the total value of the letter of the word 'SNAKE'?  
 (A) 75 (B) 85  
 (C) 95 (D) 115

7. Asha drives 6 km towards west and turns to the right and drive 3 km. Then, she turns again and drives towards right hand and drive 6 km. How far is she from her starting point? In which direction would she be driving?

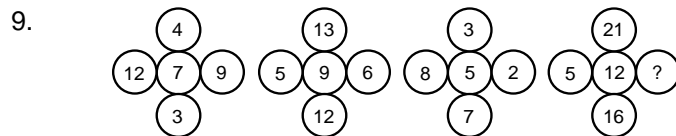
- (A) 6 km, East (B) 3 km, West  
(C) 3 km, East (D) 6 km, North

8. In the following question. Find the minimum number of straight lines required to make the given figure.



- (A) 13 (B) 15  
(C) 17 (D) 19

**Directions (Q. 9):** In the following questions given below what will come at the question mark?



- (A) 4 (B) 6  
(C) 8 (D) 12

10. Mohan purchases 20 kg of sugar at Rs. 9.50 per kg and 30 kg of sugar at Rs. 9 per kg. At what price per kg should he sell the mixture in order to gain 40%?

- (A) Rs. 12.48 (B) Rs. 12.64  
(C) Rs. 12.72 (D) Rs. 12.88

## 2-Business Awareness

1. What is the objective of a business man?
  - a. To provide high returns to the investors
  - b. To earn high profits
  - c. To bear high cost of production
  - d. All of the above
  
2. Sale of goods to abroad is known as:
  - a. Support
  - b. Entre port

- c. Export
  - d. Inter port
3. DTH Services are only provided by
- a. Transport company
  - b. Banks
  - c. Cellular company
  - d. None of these
4. Which of the following is not a business?
- a. Production of goods
  - b. Transportation
  - c. Sale of cars
  - d. Work in a factory for wages
5. 'Just do it' is a tagline of:
- a. Adidas
  - b. Nike
  - c. Puma
  - d. None of these
6. Toyota headquarter is located in \_\_\_\_\_
- a. London
  - b. Beijing
  - c. Tokyo
  - d. Seoul
7. Who is the founder of google?
- a. Mark Zuckerberg
  - b. Larry Page
  - c. Michael Bloomberg
  - d. Henry Ford

8. What is the full form of PAN?
- Person's account number
  - Permanent authentication number
  - Person's authentication number
  - Permanent account number
9. Which of the following card is not offend by bank to its customer?
- Debit card
  - ATM Card
  - Credit Card
  - PAN Card
10. Find the odd one out:
- Doctors
  - Teachers
  - Engineers
  - Businessmen
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### 3-Maths

The LCM and HCF of two rational numbers are equal, then the numbers must be

- Prime
  - Co-prime
  - Composite
  - Equal
2. If the equation  $x^2 - bx + 1 = 0$  does not possess real roots then
- $-3 < b < 3$
  - $-2 < b < 2$
  - $b > 2$
  - $b < -2$
3. The next term of the AP  $\sqrt{7}, \sqrt{128}, \sqrt{63}, \dots$
- $\sqrt{70}$
  - $\sqrt{84}$
  - $\sqrt{97}$
  - $\sqrt{112}$
4. The ratio in which the line segment joining points A ( $a_1, b_1$ ) and B ( $a_2, b_2$ ) is divided by y-axis is
- $-a_1 : a_2$
  - $a_1 : a_2$
  - $b_1 : b_2$
  - $-b_1 : b_2$

5. In triangles ABC and DEF,  $\angle A = \angle E = 40^\circ$   $AB : ED = AC : EF$  and  $\angle F = 65^\circ$ , then  $\angle B = ?$
- (a)  $35^\circ$  (b)  $65^\circ$  (c)  $75^\circ$  (d)  $85^\circ$
6. If area of a sector of a circle is  $\frac{5}{18}$  of the area of the circle then the sector angle is equal to
- (a)  $60^\circ$  (b)  $90^\circ$  (c)  $100^\circ$  (d)  $120^\circ$
7. If mode of a series exceeds its mean by 12, then mode exceeds the median by
- (a) 4 (b) 8 (c) 6 (d) 10
8. What are the roots of the equation  $4^x - 3 \times 2^{x+2} + 32 = 0$  ?
- (a) 1, 2 (b) 3, 4 (c) 2, 3 (d) 1, 3
9. A solid frustum is of height 8 cm. If the radii of its lower and upper ends are 3 cm and 9 cm respectively. Then its slant height is
- (a) 15 cm (b) 12 cm (c) 10 cm (d) 17 cm
10. The mean of  $r$  observations is  $x$ . If the first item is increased by 1, second by 2 and so on, then the new mean is
- (a)  $x + n$  (b)  $x+n/2$  (c)  $x+(n+1)/2$  (d) None
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## 4-Social Science

Q.01 Resource planning is a complex process which involves:

- A) Matching the resource development plans with overall national development plans.
- B) Matching the resource development plans with specific states/regions in a country.
- C) Matching the resource development plans with overall international development plans.
- D) Above all

Q.03 What is Boro crop?

- A) Kharif crop
- B) Rabi crop
- C) Zaid crop
- D) None of them

Q.04 Where are most of the jute industries situated in India?

- A) West Bengal
- B) Karnataka
- C) Odisha
- D) Assam

Q.05 Why Balaghat mines in Madhya Pradesh are important?

- A) For bauxite deposits
- B) for copper deposits
- C) for mica deposits
- D) for line stone deposits

Q.06 Which one of the following is not considered a sacred tree in India?

- (a) Peepal
- (b) Neem
- (c) Banyan
- (d) Mango

Q.07 Which body acts as the guardian of fundamental Rights?

- a. District Court
- b. Supreme Court
- c. Election Commission
- d. Parliament

Q.08 "Hind Swaraj" is a book written by:

- (a) Jawaharlal Nehru
- (b) Subhas Chandra Bose
- (c) Sardar Patel
- (d) Mahatma Gandhi

Q.09 What was the aim of Chipko movement?

- (a) Human rights
- (b) Political rights
- (c) Agricultural expansion
- (d) Forest conservation

Q.10 A no-confidence motion against the union government can be initiated in which among the following?

- (a) Only Lok Sabha
- (b) Only Rajya Sabha
- (c) Either Lok Sabha or Rajya Sabha
- (d) Only Lok Sabha with prior consent of president