

METRER Syllabus Practice Paper

Standard VII • Level I & II Reasoning & Aptitude Questions

Topic-wise Practice Questions

1. Insert Missing Character

Find the missing number in the following sequence:

3, 7, 15, 31, 63, ?

- | | |
|--------|--------|
| A) 95 | B) 127 |
| C) 125 | D) 128 |

2. Miscellaneous Series Completion

Find the next term in the alphanumeric series:

A2C, D5F, G10I, J17L, ?

- | | |
|---------|---------|
| A) M25N | B) M26O |
| C) M26N | D) N26O |

3. Coding - Decoding

If 'TIGER' is coded as 'VKIGT', how is 'LEOPARD' coded in that same pattern?

- | | |
|------------|------------|
| A) NGQTCTF | B) NGQTBFC |
| C) MFRQBSE | D) NGQTCFT |

4. Logical Venn Diagram & Reasoning

Which of the following descriptions best represents the Venn diagram relationship between: **Mammals, Dogs, and Cats?**

- A) Three separate non-overlapping circles
- B) One large circle containing two separate smaller circles inside it
- C) Three mutually intersecting circles
- D) Three concentric circles (one inside another)

5. Direction Sense Test

Rohan walks **10 km** North, turns East and walks **5 km**, then turns South and walks **10 km**. How far and in which direction is he from his starting point?

- | | |
|----------------|----------------|
| A) 5 km East | B) 5 km West |
| C) 10 km North | D) 15 km South |

6. Mathematical Operations

If '+' means '×', '-' means '÷', '×' means '-', and '÷' means '+', then solve the equation:

$$12 + 4 - 2 \times 6 \div 3 = ?$$

- | | |
|-------|-------|
| A) 21 | B) 27 |
| C) 18 | D) 15 |

7. Analytical Reasoning

How many total triangles are present in a square where both main diagonals are drawn?

- | | |
|------|-------|
| A) 4 | B) 6 |
| C) 8 | D) 10 |

8. Sitting Arrangements

Five friends (A, B, C, D, E) are sitting in a straight row facing North:

- C is sitting in the exact middle.
- A is sitting to the immediate left of C.
- E is sitting at the extreme right end.
- B is sitting to the immediate right of C.

Who is sitting at the extreme left end?

- | | |
|------|------|
| A) A | B) B |
| C) D | D) E |

9. Mirror & Water Image

- i. **Mirror Image:** What is the correct mirror image of "**REFLECTION**" when the mirror is placed to its right?
- ii. **Water Image:** What is the correct water image of the number sequence "**8 4 7 3**"?

10. Blood Relation

Pointing to a photograph, a woman says, "*He is the only son of my father's father.*" How is the man in the photograph related to the woman?

- | | |
|------------|----------------|
| A) Brother | B) Uncle |
| C) Father | D) Grandfather |

11. Alpha - Numeric Sequence Puzzle

Consider the sequence: **A 3 \$ M K 2 # 9 L E % 4 R T**

How many numbers in this sequence are immediately preceded by a letter and immediately followed by a symbol?

- | | |
|---------|----------|
| A) None | B) One |
| C) Two | D) Three |