

# SAMPLE PAPER

# M-STAR<sup>®</sup>

Momentum Scholarship Test for Admission & Rewards

10<sup>th</sup> Edition, 2025

## Talent HUNT Exam



**(Class VII Studying Moving to Class VIII)**  
Science, Mathematics & Mental Ability

### INSTRUCTIONS FOR CANDIDATE

1. Duration of Test is 1 hr.
2. The Test Booklet consists of 40 questions. The maximum marks are 90. There is **no negative marking** for wrong answer.
3. **Pattern of the questions are as under:**

The question paper consists of three subjects i.e., **Science, Mathematics and Mental Ability**. There are two sections in this question paper.

- (i) **Section-I:** This section contains **35 multiple choice questions**, which have **only one correct answer**. Each question carries **+2 marks** for correct answer.
- (ii) **Section-II:** This section contains 5 multiple choice questions, in which **one or more than one choice(s)** is/are correct. Each question carries **+4 marks** for correct answer.



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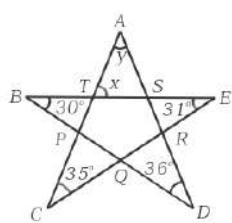
23. Of the 120 people in the room,  $\frac{3}{5}$ th are women. If  $\frac{2}{3}$ rd of the people are married, what is the maximum number of women in the room who could be unmarried?

(A) 40 (B) 20 (C) 30 (D) 60

24. A jar contains black and white marbles. If there are ten marbles in the jar, which of the following could not be the ratio of black to white marbles?

(A) 9:1 (B) 7:3  
(C) 1:10 (D) 1:4

25. Find the angles  $x$  and  $y$  in the following figure.



(A)  $x = 71^\circ$  and  $y = 61^\circ$  (B)  $x = 61^\circ$  and  $y = 71^\circ$   
(C)  $x = 66^\circ$  and  $y = 48^\circ$  (D)  $x = 48^\circ$  and  $y = 66^\circ$

26. The sum of three expressions is  $x^2 + y^2 + z^2$ . If two of them are  $4x^2 - 5y^2 - z^2$  and  $-3x^2 + 4y^2 + 2z^2$ , find the third expression.

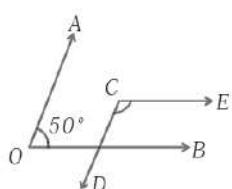
(A)  $2x^2 + 2z^2$  (B)  $2y^2$   
(C)  $2x^2 + 2y^2 - z^2$  (D)  $-2y^2 - 2z^2$

27. Which of the following is equal to

$$x + y - [z - x - \{y + z - (x + y) - (z + x - \overline{y + z + x})\}]$$

(A)  $3x$  (B)  $2y$  (C)  $x$  (D)  $x + 2y$

28. In the below given figure, it is being given that  $AO \parallel CD$ ,  $OB \parallel CE$  and  $\angle AOB = 50^\circ$ . Find the measure of  $\angle ECD$ .



(A)  $50^\circ$  (B)  $90^\circ$  (C)  $110^\circ$  (D)  $130^\circ$

29.  $7^{20} \times 49^5 \times 343^{-10} =$

(A)  $7^2$  (B) 7 (C) 1 (D)  $49^2$

30. Find the value of  $9^{4.5} : 3^7$ .

(A) 9:1 (B) 3:1 (C) 9:2 (D) 3:2

Direction (Q. 31 to 34): Identify the relation between each of the given pairs on either side of '>::'. Replace the question mark '?' with the correct option.

31.  $11 : 17 :: 23 : ?$

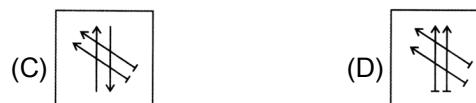
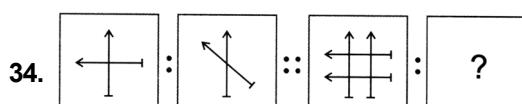
(A) 27 (B) 29  
(C) 31 (D) 37

32.  $41 : 14 :: 73 : ?$

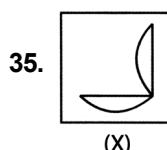
(A) 11 (B) 37  
(C) 21 (D) 25

33. Teeth : Chew :: Mind : ?

(A) Think (B) Brain  
(C) Study (D) walk



Direction (Q. 35): Find the option figure which contains figure (X) as its part.



**SECTION - II**

This section contains **5 multiple choice questions**. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE OR MORE THAN ONE** choice(s) is/are correct. Each question carries **+4 marks** for correct answer.

**36. Identify the incorrect statement.**

- (A) When an electric current flows through a conductor, heat is produced.
- (B) Room heater, electric bulb etc, utilize the heating effect of current.
- (C) Electromagnets are used in electric bells and buzzers.
- (D) An electric circuit is a continuous, non-conducting path for flow of electric current.

**37. A mixture of five parts of iron fillings and three parts of sulphur are strongly heated. Which of the following does not take place ?**

- (A) Heat is given off.
- (B) Light is given off.
- (C) A chemical change took place.
- (D) The black residue is attracted to a magnet.

**38. Angles ratio of quadrilateral is 1:2:3:4. What is the size of the greatest angle ?**

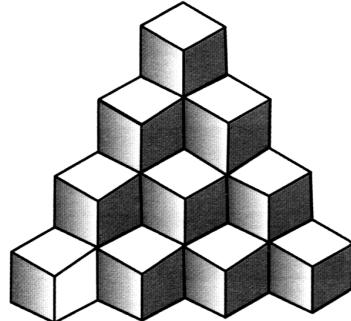
- (A)  $144^\circ$
- (B)  $180^\circ$
- (C)  $160^\circ$
- (D)  $170^\circ$

**39.  $(-8) \div 0 = ?$** 

- (A) -8
- (B) 0

- (C) not defined
- (D) Any real number

**Direction (Q. 40): Find the number of unit cubes in the given blocks.**

**40.**

- (A) 10
- (B) 12
- (C) 16
- (D) 20



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