

BITSAT 2025 June 25 Shift 2 Question Paper

| | | |
|------------------------------|---------------------------|-----------------------------|
| Time Allowed :3 Hours | Maximum Marks :390 | Total questions :130 |
|------------------------------|---------------------------|-----------------------------|

General Instructions

Read the following instructions very carefully and strictly follow them:

1. Duration of Exam: 3 Hours
2. Total Number of Questions: 130 Questions
3. Section-wise Distribution of Questions:
 - Physics - 40 Questions
 - Chemistry - 40 Questions
 - Mathematics - 50 Questions
4. Type of Questions: Multiple Choice Questions (Objective)
5. Marking Scheme: Three marks are awarded for each correct response
6. Negative Marking: One mark is deducted for every incorrect answer.
7. Each question has four options; only one is correct.
8. Questions are designed to test analytical thinking and problem-solving skills.

1. A car accelerates from rest to a speed of 20 m/s in 10 seconds. What is its acceleration?

- (1) 2 m/s²
 - (2) 3 m/s²
 - (3) 4 m/s²
 - (4) 5 m/s²
-

2. Which of the following is the correct unit for electric charge?

- (1) Coulomb
 - (2) Ampere
 - (3) Volt
 - (4) Joule
-

3. Which of the following has the greatest electronegativity?

- (1) Fluorine
 - (2) Oxygen
 - (3) Nitrogen
 - (4) Chlorine
-

4. What is the value of $\sin 30^\circ$?

- (1) $\frac{1}{2}$
 - (2) $\frac{\sqrt{3}}{2}$
 - (3) 1
 - (4) 0
-

5. The number of significant figures in the measurement 0.00456 is:

- (1) 2
 - (2) 3
 - (3) 4
 - (4) 5
-

6. Which of the following is the correct electronic configuration for Oxygen (O)?

- (1) $1s^2 2s^2 2p^4$
 - (2) $1s^2 2s^2 2p^6$
 - (3) $1s^2 2s^2 2p^3$
 - (4) $1s^2 2s^2 3p^2$
-

7. Which of the following is an example of a scalar quantity?

- (1) Velocity
 - (2) Force
 - (3) Temperature
 - (4) Displacement
-

8. The equation of a straight line is given by $y = 3x + 4$. What is the slope of the line?

- (1) 3
 - (2) 4
 - (3) 1
 - (4) 0
-

9. Which of the following is a non-metal?

- (1) Sodium
 - (2) Iron
 - (3) Carbon
 - (4) Copper
-

10. The roots of the equation $x^2 + 5x + 6 = 0$ are:

- (1) -2 and -3
 - (2) 1 and 6
 - (3) -1 and -6
 - (4) -3 and -2
-