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

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

(1) Coulomb

(2) Ampere

(3) Volt

(4) Joule

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3. Which of the following has the greatest electronegativity?

(1) Fluorine

(2) Oxygen

(3) Nitrogen

(4) Chlorine

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4. What is the value of $\sin 30°$?

(1) $\frac{1}{2}$

(2) $\frac{\sqrt{3}}{2}$

(3) 1

(4) 0

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

(1) 2

(2) 3

(3) 4

(4) 5

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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) $1s^2 2s^2 3p^2$

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

(1) Velocity

(2) Force

(3) Temperature

(4) Displacement

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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

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

(1) Sodium

(2) Iron

(3) Carbon

(4) Copper

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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