BITSAT 2025 June 25 Shift 1 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.	2. Total Number of Questions: 130 Questions			
3.	3. Section-wise Distribution of Questions:			
	• Physics - 40 Questions			
	• Chemistry - 40 Questions			
	• Mathematics - 50 Ques	stions		
4.	4. Type of Questions: Multiple Choice Questions (Objective)			
5.	5. Marking Scheme: Three marks are awarded for each correct response			
6.	5. 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 ball is thrown vertically upward with a speed of 49 m/s. How long will it take to return to the thrower's hand?

- (1) 5 s
- (2) 7 s
- (3) 10 s
- (4) 14 s

2. The escape velocity from the surface of a planet is v_e . What will be the escape velocity from a planet whose mass and radius are twice that of the original planet?

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

3. Which of the following compounds will give a positive Iodoform test?

- (1) Ethanol
- (2) Propanol
- (3) Methanol
- (4) Methanal

4. Which of the following is not a colligative property?

- (1) Osmotic pressure
- (2) Depression of freezing point
- (3) Elevation of boiling point
- (4) Refractive index

5. If the roots of the quadratic equation $ax^2 + bx + c = 0$ are real and equal, then:

- (1) $b^2 4aclt; 0$
- (2) $b^2 4ac = 0$
- (3) $b^2 4acqt; 0$
- (4) a + b + c = 0

6. Let $A = \begin{bmatrix} 2 & 0 \\ 0 & 3 \end{bmatrix}$. The determinant of A^3 is: (1) 216 (2) 27 (3) 8 (4) 1

7. Choose the correct word to complete the sentence: "She was so tired that she could keep her eyes open."

- (1) hardly
- (2) hard
- (3) barely
- (4) clearly

8. Statement: All flowers are beautiful. Some beautiful things are fragile. Conclusion I: Some flowers are fragile. Conclusion II: All beautiful things are flowers.

- (1) Only I follows
- (2) Only II follows
- (3) Both follow
- (4) Neither follows

9. Which number comes next in the series? 3, 6, 11, 18, 27, ?

- (1) 36
- (2) 38
- (3) 40
- (4) 48