

FIRST PUC MID – TERM EXAMINATION OCTOBER – 2023

SUBJECT: PHYSICS (33)

Time: 3 hours 15 min.

Max Marks: 70

General Instructions:

1. All parts are compulsory.
2. For Part – A questions, first written-answer will be considered for awarding marks.
3. Answers without relevant diagram / figure wherever necessary will not carry any marks.
4. Direct answers to the numerical problems without detailed solutions will not carry any marks.
5. Standard symbols used in the question paper have usual meanings.

PART – A

I. Pick the correct option among the four given options for ALL of the following questions: $15 \times 1 = 15$

1. The number of significant figures in 20.30 is:

(A) 1

(B) 2

(C) 3

☒ (D) 4

2. Dimensional formula for acceleration is:

☒ (A) $[LT^{-2}]$

(B) $[LT^{-1}]$

(C) $[LT]$

(D) $[L]$

3. Consider a particle moving along a straight line. For the particle, we can say that:

(A) if the speed is increasing then the acceleration must be positive.

(B) if the speed is decreasing then the acceleration must be negative.

(C) if velocity and acceleration both are negative, then the speed of the particle increases.

(D) if velocity and acceleration both are positive, then the speed of the particle decreases.

4. If $\vec{A}$ is a vector then the vector $-3\vec{A}$:

(A) has the same direction of that of $\vec{A}$ but has 3 times the magnitude as that of $\vec{A}$.

☒ (B) has the opposite direction to that of $\vec{A}$ and has 3 times the magnitude as that of $\vec{A}$.

(C) has the same magnitude and direction of that of $\vec{A}$.

(D) has the opposite direction to that of $\vec{A}$ and has $1/3$ times magnitude as that of $\vec{A}$.

5. Consider the following two statements:

Statement – 1: For a projectile, neglecting air resistance, the horizontal velocity remains constant during its flight. ✓

Statement – 2: There is no force acting on the projectile in the horizontal direction. ✓
Among these two statements:

(A) Statement – 1 is true and Statement – 2 is wrong.

(B) Statement – 1 is wrong and Statement – 2 is true.

☒ (C) Both statements are true and statement -2 is the correct explanation for statement – 1.

(D) Both statements are wrong.

6. Which of the following statements is correct?

(A) An external force is required to keep a body in motion. ✗

☒ (B) A particle which is free from any force will maintain its state of rest or of uniform motion.

(C) A particle may accelerate even when the net force on it is zero. ✗

(D) An unbalanced force is required to keep a body at rest. ✗

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