

MODEL QUESTION PAPER 2023-24

I PUC - 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 / circuit wherever necessary will not carry any marks.
4. Direct answers to the numerical problems without detailed solutions will not carry any marks.

PART – A

1. Pick the correct option among the four given options for ALL of the following questions:

15 × 1 = 15

1. The number of significant figures in 3.500 is

(A) 2 (B) 3 (C) 4 (D) 1

2. If v_A , v_B and v_C are the magnitudes of instantaneous velocities corresponding to the points A, B and C of the given position-time graph of a particle respectively, then

(A) $v_A = v_B = v_C$ (B) $v_A > v_B > v_C$
(C) $v_A < v_B < v_C$ (D) $v_A < v_B = v_C$



3. A vector is multiplied with a positive integer. The direction of the resultant vector is

(A) same as the initial vector (B) opposite to the initial vector
(C) perpendicular to the initial vector (D) not specified

4. 'An external force is required to keep a body in motion'. This is the statement of

(A) Newton's first law of motion (B) Newton's second law of motion
(C) Aristotelian law of motion (D) Newton's third law of motion

5. The non-contact force encountered in mechanics is

(A) normal reaction (B) frictional force (C) tension in a spring (D) gravitational force

6. 1 calorie is equal to

(A) 4.186 J (B) 1.6×10^{-19} J (C) 3.6×10^6 J (D) 10^{-7} J

7. A girl is sitting with folded hands on a swivel chair rotating with considerable angular speed. 'I' and ' ω ' are the moment of inertia and angular speed of the chair along with girl about the axis of rotation. She stretches her arms horizontally while the chair is rotating. During this

(A) I decreases and ω increases (B) I increases and ω decreases
(C) both I and ω increase (D) both I and ω decrease

8. The SI unit of universal gravitational constant (G) is :

(A) $\text{N m}^2 \text{kg}^{-1}$ (B) $\text{N m}^2 \text{kg}^{-2}$ (C) N m kg^{-2} (D) $\text{N m}^2 \text{kg}^{-3}$

March 2013 Physics Question Paper

Clifford Lane



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