

## UNIT TEST

STD : 11 ( SCIENCE STREAM )

SUB : PHYSICS (054)

TIME : 1 : 00 HOUR

MARKS : 25

### Section A

- Do as directed. Question no. 1 to 7. [Each carries 1 Mark]

[07]

- A body is falling freely under the action of gravity alone in vacuum. Which of the following quantities remain constant during the fall ?  
(A) Kinetic energy (B) Potential energy  
(C) Total mechanical energy (D) Total linear momentum
- A body is initially at rest. It undergoes one-dimensional motion with constant acceleration. The power delivered to it at time  $t$  is proportional to  
(A)  $t^{\frac{1}{2}}$  (B)  $t$  (C)  $t^{\frac{3}{2}}$  (D)  $t^2$
- The potential energy of a satellite is  $-8 \times 10^9$  J, then what is its binding energy ?
- Mention dimensional formula of  $\left(\frac{G}{g}\right)$
- If the resultant external force is zero then  $a_{cm} = \dots\dots$  and  $v_{cm} = \dots\dots$
- If  $|\vec{A} \times \vec{B}| = |\vec{A} \cdot \vec{B}|$  then angle between  $\vec{A}$  and  $\vec{B}$  is  $\dots\dots$
- If torque acting on a rigid body is zero, then angular momentum will remain constant. True / False

### Section B

- Write any 02 (two) answers from the question no. 8 to 10 given below. [Each carries 2 mark] [04]

- Derive the work energy theorem for a variable force exerted on a body in one dimension.
- Derive an expressions for the kinetic energy on an inclined plane of inclination  $\theta$  for the body rolling without sliding.
- Derive the equation for variation of  $g$  due to height from the surface of earth.

### Section C

- Write any 03 (three) answers from the question no. 11 to 15 given below. [Each carries 3 mark] [09]

- A rain drop of radius 2 mm falls from a height of 500 m above the ground. It falls with decreasing acceleration (due to viscous resistance of the air) until at half its original height, it attains its maximum (terminal) speed, and moves with uniform speed thereafter. What is the work done by the gravitational force on the drop in the first and second half of its journey ? What is the work done by the resistive force in the entire journey if its speed on reaching the ground is  $10 \text{ ms}^{-1}$  ?
- Explain the torque acting on a particle.
- The angular speed of a motor wheel is increased from 1200 rpm to 3120 rpm in 16 seconds. (i) What is its angular acceleration, assuming the acceleration to be uniform? (ii) How many revolutions does the engine make during this time ?
- Obtain an equation of orbital time-period of a satellite revolves around the earth.

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