

SREE CHAITANYA MAHAVIDYALAYA

B.Sc (General) INTERNAL EXAMINATION-2022

SEMESTER-I

Subject: Physics

Full marks-8

Answer any four questions from the following:

4×2=8

1. State Kepler's laws.
2. Describe the variation in the value of g when an object of mass m is situated at a depth h below the earth's surface.
3. What is Escape velocity?
4. Show that the total energy is constant for a particle in simple harmonic motion.
5. Solve: $\frac{d^2y}{dx^2} - 5\frac{dy}{dx} + 6y = 0$
6. Define the term "Angular momentum". Is it a vector or scalar quantity?