

## IMPORTANT QUESTIONS FOR SECTION C

## **IX PHYSICS**

- 1. What is Kinematics? Derive the relation  $2aS = Vf^2 Vi^2$
- 2. Derive the relation for Tension in string and acceleration of the bodies when two bodies of different masses are attached with the string which passes over a frictionless pulley such that both the bodies are moving vertically.

MINATION

- 3. State Law of Universal Gravitation. Determine the mass of Earth using Law of Gravitation.
- 4. Write down the principle, construction, working and use of the hydraulic lift.
- 5. Define coefficient of Linear expansion and Show that  $\alpha = 1/3 \beta$
- 6. Derive the relation S= Vit +  $\frac{1}{2}$  at<sup>2</sup>