

- ii) Scleronomic and Rheonomic constants (2mks)
- f) Three particles of mass 2kg, 5kg and 10kg are located at the points (-1,0,1), (2,-1,3) and (-2,2,1) respectively. Calculate the moment of inertia of the system about the x-axis. (4mks)
- g) Find the generalized coordinate for the following systems
- A flywheel (1mk)
 - Beads in abacus (1mk)
- h) What is virtual work? (2mk)
- i) A part of a mechanical linkage has a mass 3.6 kg, we measure its moment of inertia about an axis 0.15 m from its center of mass to be $I_p = 0.132 \text{ kgm}^2$. what is the moment of inertia I_{cm} about a parallel axis through the center of mass (4mks)

QUESTION TWO (20 MARKS)

- a) A particle of mass m kg, moves in a force field of potential $V = -\frac{k \cos \theta}{r^2}$, where k is a constant. Use the variational calculus to determine the equations of motion. (10mks)
- b) A body of mass m is constrained to move on a smooth surface in the shape of \sqrt{x} in the horizontal xy plane. At the origin the mass is at rest. A light flexible rope is attached to the mass and extends over a light frictionless pulley at the top of the plane as shown in figure 1.1. A force F is applied to the rope through the pulley. Using variational calculus and Lagrange's method of undetermined multipliers, find an expression for the acceleration of the mass. (10mks)



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