

- 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. The force vector, determine its generalized coordinates.
 (1mk)
 (1mk)
 (1mk)

(3mks)

- b) A body of mass M , rests on a horizontal plane at an angle of 45° to the horizontal. It is pulled up the plane by means of a light flexible rope passing parallel to the plane and passing over a light frictionless pulley at the top of the plane as shown in figure 1.1. Find the position of the rope through the pulley using variational calculus and express it in terms of x and y . Use Lagrange's principle, find an expression for the acceleration of the body. (10mks)



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