



NOTE: Attempt FOUR questions, selecting at least ONE questions from each section.

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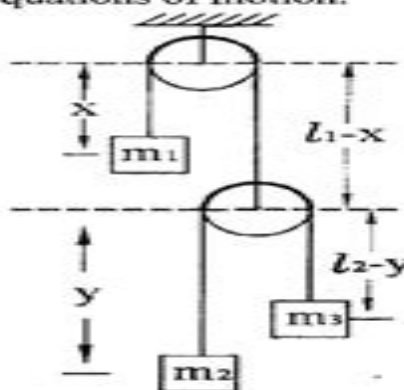
SECTION I

- Q 1(a) Show that the time rate of change of total angular momentum of a system of particle is equal to the total external torque.
- (b) State D'Alembert's principle and use it to derive Euler-Lagrange equation of motion

$$\frac{d}{dt} \left(\frac{\partial T}{\partial \dot{q}_i} \right) - \frac{\partial T}{\partial q_i} = Q_i.$$

- (c) Show that the linear momentum of a system of particles is the same as if a single particle of mass M is located at the position of the center of mass and moving in the manner the center of mass moves. [4,4,5,4]

- Q 2(a) Consider the double pulley system as shown in the figure. Use the coordinates indicated, determine the equations of motion.



- (b) A particle moves in a plane under the influence of a force $f = -Ar^{\alpha-1}$ directed towards the origin, A and $\alpha > 0$ are constants. Choose appropriate generalized coordinates and let the potential energy be zero at the origin. Find the Lagrange equations. Is the angular momentum about the origin conserved? Is the total energy conserved?
- (c) Show that the magnitude R of the position vector of the centre of mass is given by the following equation

$$M^2 R^2 = M \sum_i m_i x_i^2 - \frac{1}{2} \sum_{i,j} m_i m_j x_{ij}^2 \quad [4,4,5,4]$$

- Q 3(a) A point particle moves in space under the influence of a force derivable from a generalized potential of the form $U(r, v) = V(r) + \sigma \cdot L$, where r is the radius vector from a fixed point, L is the angular momentum about that point and σ is a fixed vector in space. Find the components of the force on the particle in both Cartesian and spherical polar coordinates.
- (b) Assume Earth's orbit to be circular and the Sun's mass suddenly decreases by half. Write orbit does Earth then have? Will Earth escape the solar system?

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G Orfield



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