B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2003.

Common to all Branches except Marine Engineering

GE 131 - ENGINEERING MECHANICS

Time: Three hours

Maximum: 100 marks

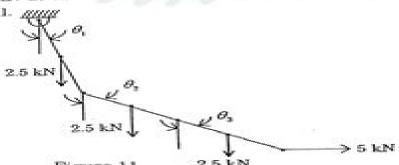
Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- Two vectors A and B are given. Determine their cross product and the unit 36.0 vector along it. A = 2i + 3j + k and B = 3i - 3j + 4k.
- Distinguish the following types of forces with suitable sketch : 2.
 - Collinear and (b) Co-planar.
- State and explain Lami's theorem of triangle law of equilibrium. 3.
- Under what conditions do the following coincide: 46
 - Centre of mass and Centre of gravity (b) Centre of gravity and Centroid of area.
- What is the condition interms of efficiency for a machine to be self-locking? 5.
- A particle, starting from rest, moves in a straight line and its acceleration is given by $a = 50 - 36t^2$ m/sec² where t is in sec. Determine the velocity of the 65. particle when it has travelled 52 m.
- A stone is dropped into a well and if the splash is heard 2.50 seconds later, determine the depth of water surface assuming that the velocity of sound 7. is 330 m/sec.
- Define the term co-efficient of restitution. 8
- State the equation to determine the escape velocity of a satellite to escape from 9 the gravitational field of earth.
- How will you calculate the linear restoring force of an elastic material? 10.

PART B - (5 × 16 = 80 marks)

11. A three-bar pendulum ABCD has three bars each 2 m in length and weighing 2.5 kN as shown in Figure 11. It is held in equilibrium by applying a horizontal force of 5 kN at the free end. Determine the angles θ_1 , θ_2 and θ_3 made with the vertical.



2.5 kNFigure 11

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Judd E. Hollander

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