

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Two vectors A and B are given. Determine their cross product and the unit vector along it. $A = 2i + 3j + k$ and $B = 3i - 3j + 4k$.
2. Distinguish the following types of forces with suitable sketch :
(a) Collinear and (b) Co-planar.
3. State and explain Lami's theorem of triangle law of equilibrium.
4. Under what conditions do the following coincide :
(a) Centre of mass and Centre of gravity (b) Centre of gravity and Centroid of area.
5. What is the condition in terms of efficiency for a machine to be self-locking?
6. 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 particle when it has travelled 52 m.
7. 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 is 330 m/sec.
8. Define the term co-efficient of restitution.
9. State the equation to determine the escape velocity of a satellite to escape from the gravitational field of earth.
10. How will you calculate the linear restoring force of an elastic material?

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.



Figure 11

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Judd E. Hollander



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