

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) A rod is acted upon by two forces $P = 2 \text{ kN}$ and $Q = 3 \text{ kN}$ as shown in figure 1. Determine the magnitude and direction of the resultant by using i) Parallelogram Law of forces ii) Triangle Law of forces.

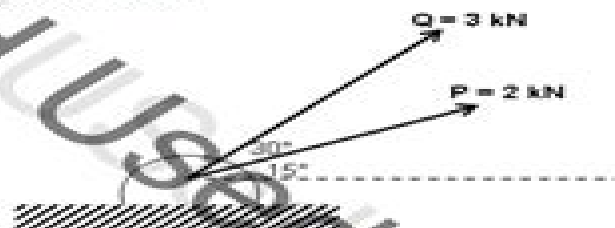


Figure: 1

- b) A bracket is constructed by attaching member ABC to wall CD with a frictionless hinge at C and a horizontal cable at A, as shown in figure 2. A smooth cylinder of weight 1.2 kN is placed in the bracket as shown. Determine the force acting on the cylinder at contact points B and D and the tension in the cable. [7+8]



Figure: 2

2. Two smooth cylinders each of weight 2000 N and 800 N with radius 100 mm and 50 mm , respectively, rest in a horizontal channel having one inclined wall and one vertical wall, the distance between them at bottom is 200 mm as shown in figure 3. Find the pressures exerted on the walls and floor at the points of contact A, B and D. [15]

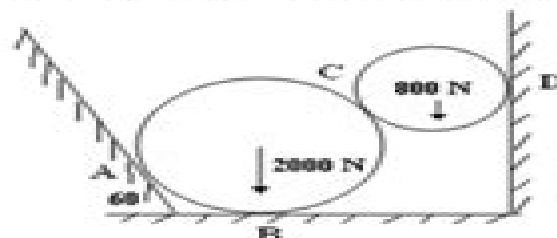


Figure: 3

Engineering Mechanics Question Paper

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Engineering Mechanics Question Paper:

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