

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.

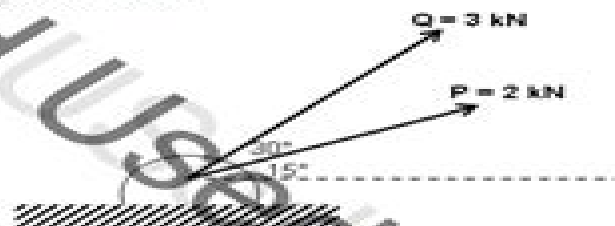


Figure: 1

- 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  $1.2 \text{ kN}$  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]

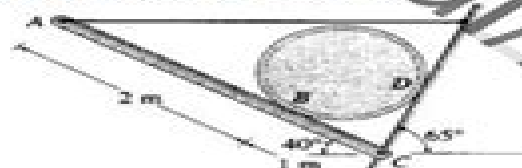


Figure: 2

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

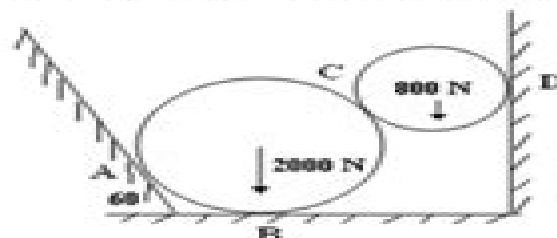


Figure: 3

# Engineering Mechanics Question Paper

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