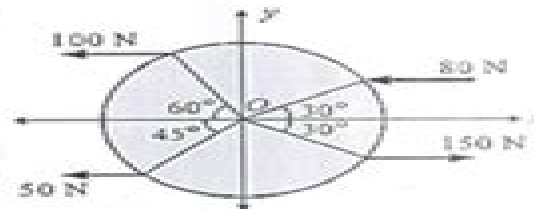


Predicted Question Paper 2
ENGINEERING MECHANICS
3 hours 88 Marks

- N.B.:** 1. Question No. 1 is compulsory.
 2. Attempt any 3 more questions from remaining five.
 3. Assume suitable data if necessary, and mention the same clearly.
 4. Figures to the right indicate full mark.
 5. Take $g = 9.81 \text{ m/s}^2$.

For the force system shown. Find the resultant and locate it with respect to O if the radius of plate is 1m. [4]



Determine the tension in cord AB and BC for the equilibrium of the 30 kg block as shown in the figure.



1.c Define laws of friction [4]

1.d

Acceleration of a particle moving along a straight line is represented by the relation $a = t^3 - 2t^2 + 7$. At $t = 1$ second, velocity of the particle is 3.58 m/s and displacement is 9.39 m. Determine the velocity and displacement at $t = 2$ seconds.

1.e Define the instantaneous Centre of Rotation and write the properties of instantaneous Centre of Rotation.

2.a Two identical cylinders of weight 200 N and diameter 100 mm are placed as shown in figure. Determine the support reactions at A, B and C. [6]

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Dilan Wimalasena



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