

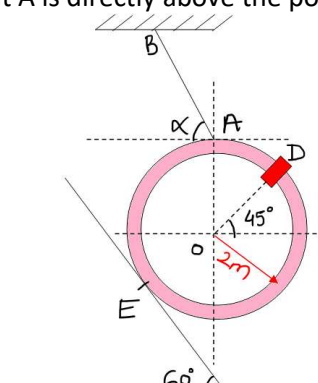
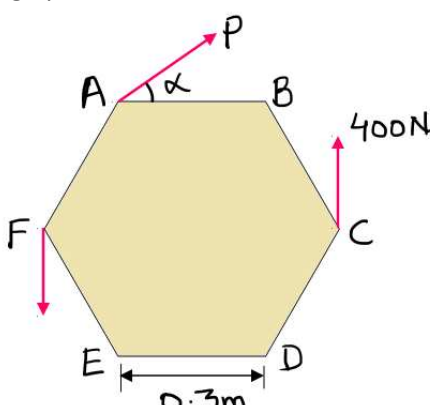
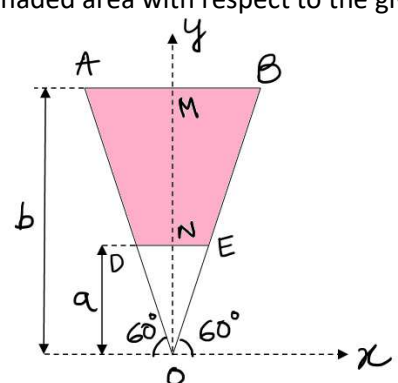
Maulana Azad National Institute of Technology, Bhopal
Department of Civil Engineering
Mini Test-Dec. 2020

Class: B.Tech, I Semester
Subject: Engineering Mechanics
Total Questions: 03

Class: Section F
Subject code: CE125
Max. Marks: 10

Note:

1. All questions are compulsory. Assume any missing data suitably.
2. Write Name, Sch. No., Roll No. and sign on each page of answer book.
3. Answer sheet name should be your roll no.
4. Upload answer sheets (in PDF Form) on MS Teams and also email to ce125sectionf2020@gmail.com within 15 min. after completion of exam.

S.No.	Questions	Marks
1.	<p>A 10 kg ring is supported by a smooth surface at E and a wire AB. A body of mass 3 kg is fixed at D as shown in the figure below. What is the tension in the wire AB? Also find angle α. The point A is directly above the point O.</p> 	04
2.	<p>Determine magnitude and direction of minimum force P, so that resultant of system is passing through point 'D'.</p> 	04
3.	<p>Determine centroid of shaded area with respect to the given axis.</p> 	02