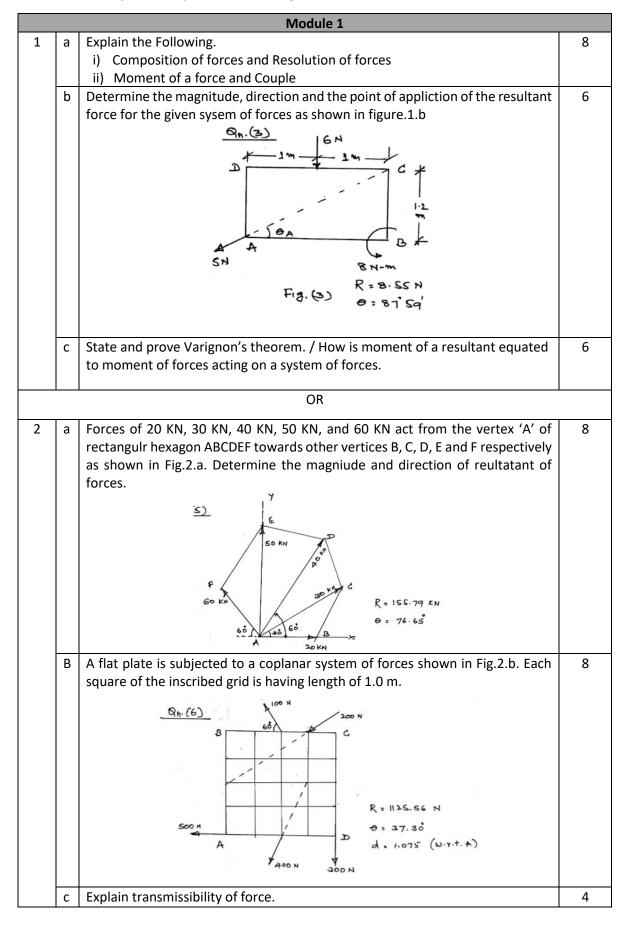
Semester End Examinations (SEE) 2020-21

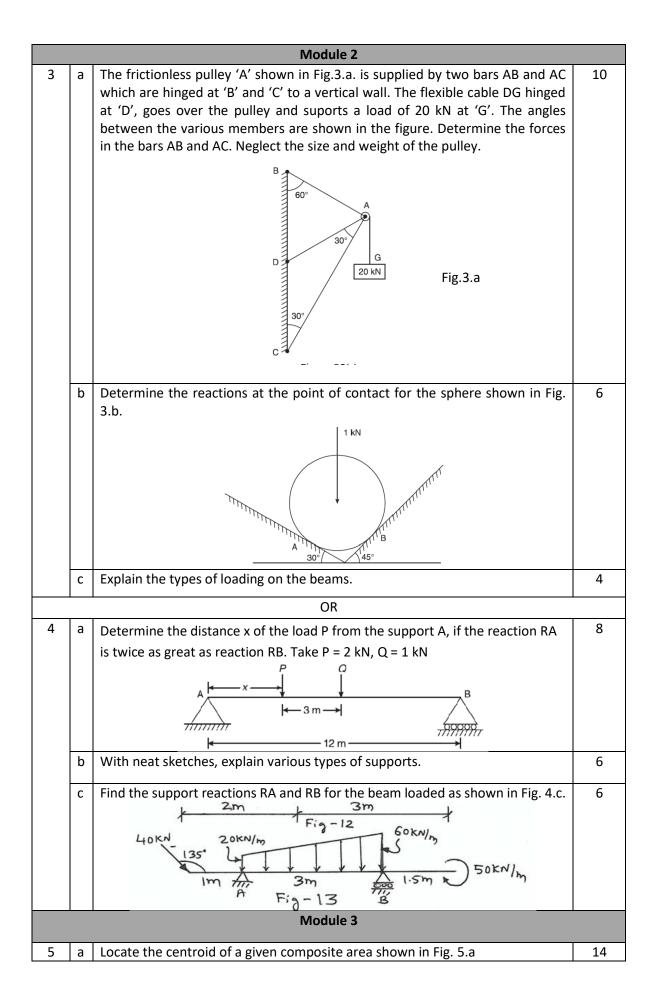
Model Question Paper-2

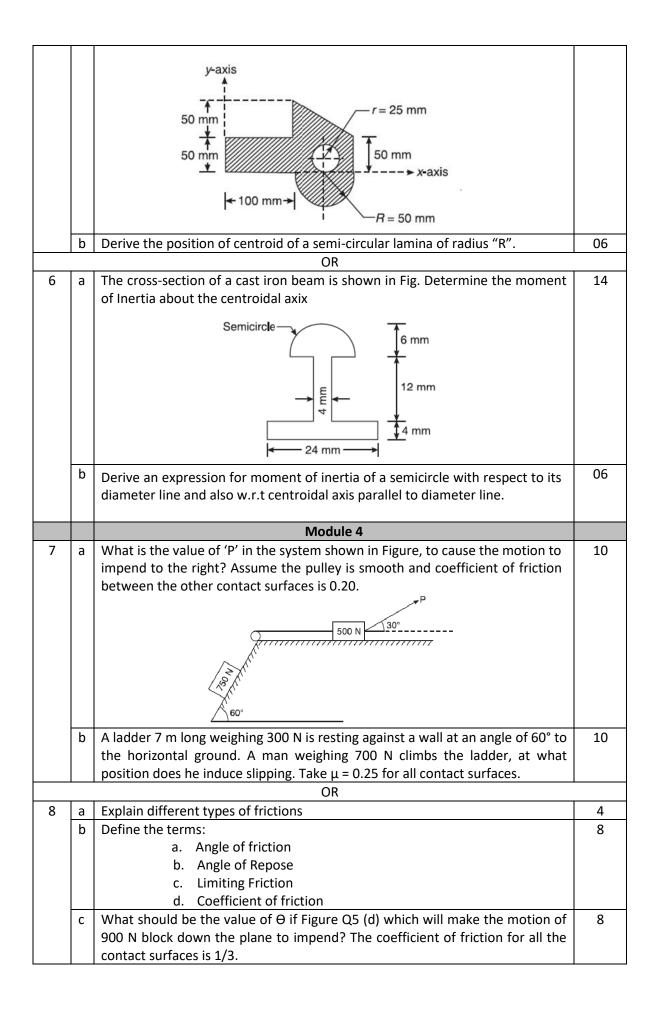
Subject: Engineering Mechanics Semester: I

Course code: 20CIV14 Duration: 3 Hours

Note: Answer any five full questions selecting at least one from each Module.







		300N 900N	
Module 5			
9	а	Explain with neat sketch for projectile motion: i) Range	10
		ii) Time of flight	
		iii) Maximum height	
		iv) Angle of projection	
	b	A stone is dropped into a well and a sound of splash is heard after 4 seconds. Find the depth of well if velocity of sound is 320m/s.	10
OR			
10	а	A burglar's car starts with an acceleration of 2 m/s2. A police vigilant party came after 5seconds and continued to chase the burgler's car with uniform velocity of 20m/s. find the time taken in which the police van will overtake the car.	12
	b	A cricket ball is thrown by a fielder in ground from a height of 3m at an angle of 400 with horizontal. The velocity with which the ball is thrown is 30m/s. the ball hits the wicket at a height of 0.3m from ground. Determine the distance of fielder from the wicket when the ball is thrown.	10