

Question Paper Code:

ME301ES

ACE-R20

Semester Supplementary Examination II B. Tech- I Semester- SEPTEMBER-2022

ENGINEERING MECHANICS

(Electrical & Electronics Engineering)

Time: 3 Hours

Max. Marks: 70

H. T. No

Answer any 5 Questions out of 8 Questions from the following

Q.No	M=Marks; Question	
1. a)	A system of four forces acting on a body is	N
	A system of four forces acting on a body is as shown in Figure. Determine the resultant.	7
	120N 4 3 0 2 1 200N	
	50N (a)	
b)	Three cables are joined at the junction ring <i>C</i> . Determine the tensions in cables <i>AC</i> and <i>BC</i> caused by the weight of the 30-kg cylinder.	7
	30 B	
. a) S	State the equations of equilibrium to determine the resultant of a system with neat sketch.	4
b) 7	wo cylinders are kent in a channel as shown in 6	
	ontact points A, B, C and D. Assume the contact Surfaces are smooth.	10



