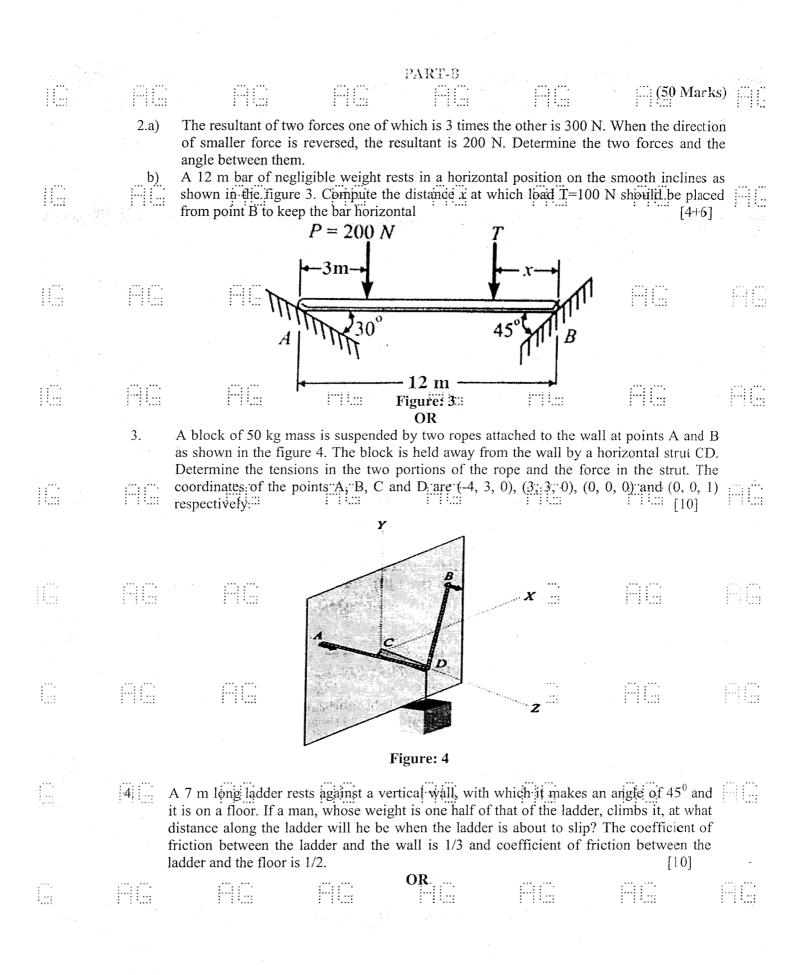


	Ä	de No: 131AE  JAWAHARLAI  B.Tec  (Common to CE, Ine: 3 hours	h I Year I Semest ENGINEI	ter Examination ERING MECHA	s, December - 2 NICS	2016	
Ģ	Not	Part A is compa Part B consists of	per contains two particles which carrot 5 Units. Answ 0 marks and may	ries 25 marks. A	question from	stions in Part A each unit. Each	 
II.	FIL	AG AG	MG	PART. A.	AG	(25 Mar	rks) 🛗
	1.a) b)	A force of 500 N axis. Write the for Using Lami's equ the weight of the s	ce in vector form. ation, determine t	he tension in the	string AC and I		
	FILE	AG ,		5° B	<b>7</b> ag	AG	
	c) d) e)	Define the term "le A square threaded load of 500 N. The determine if the jac The radius of gyra Determine the mon Find the coordinate."	ad" and "pitch" of screw jack 75 mm e coefficient of f k is self-locking of ation of a rectang ment of inertia of the	mean diameter riction is 0.075. r not. ular channel is ne channel.	If lever arm is 19 mm and its	of 400 min lengt [3] area is 3500 mn	th, m².
	AG HG	radius 10 cm from a	a quadrant of a cir	cle of radius 20 c	em as shown in t	he figure 2. [3]	e e
· · · · · · · · · · · · · · · · · · ·		n HG		oem /		AC	FIL
*	g) h) i)  i)	State the principle of Determine the mass to its centroid. State the principle of With a sketch expendulum.	moment of inertia	ii ii nomentum.	d of length L abo	[3]	



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