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	AG	Code No: 138AA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERS B. Tech IV Year II Semester Examinations, Decem ACTUATORS AND ROBOT SYSTEMS (Electronics and Communication Engineeri Time: 2 Hours Answer any Five Questions All Questions Carry Equal Marks	nber - 2020 S /
	AG	1.a) Classify different types of coordinate systems and explain. b) Write briefly about the application of robots in pick and probots.	place, gantry and arm type [7+8]
	 Explain in detail the robot positioning methods and its advantages and limitations. [15] Explain in detail different types of joints and its notation scheme. [15] 		
	AG	4. For a planar RP manipulator assuming suitable data develop using DH algorithm.	the kinematic relationship.
		5. Explain in detail the principle of resistance transducers type se write its advantages.	nsors in robotic system and [15]
	AG,	 6. How radio frequency identification (RFID) functions and write system? 7. What are the different types of cylinders used in hydraulic dehelp of a neat sketch. 	AG (15)G A
	AG	8.a) Explain in detail about robot programming and write its structub. Explain in detail the applications of robot in assembly and insplant to the control of the control o	
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