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	Т	Chird Semester B.Tech (Minor) Degree Examination December 2024 (2	Mary Mary Mary Mary Mary Mary Mary Mary
			PUTHURUT
		Course Code: MRT281	
		Course Name: INTRODUCTION TO SENSORS AND ACTU	ATORS
M	lax. N	Duration: 3 Hours	
		PART A	
		Answer all questions. Each question carries 3 marks	Marks
	1	Mention the difference between Sensors and Actuators	(3)
	2	Briefly describe about Magnetic Sensors	(3)
	3	State the applications of VR Sensors	(3)
	4	What is meant by Magnetic Materials Market?	(3)
	5	List out the applications of Linear actuators?	(3)
	6	Write a short note on solenoid actuator.	(3)
	7	What is cylindrical rotatory actuator?	(3)
	8	Give a brief description about the actuation in rotatory actuators.	(3)
	9	What are the applications of Encoders?	(3)
	10	Define Coanda effect.	(3)
		PART B	
		Answer any one full question from each module. Each question carr	ies 14 marks
		Module 1	
	11	Explain about Linear and Latching Solenoids with a neat sketch.	(14)
	12	Describe in detail about Special Magnetic devices with examples.	(14)
		Module 2	
	13	With a neat sketch explain about Solid state sensors.	(14)
	14	Write in detail about magnetic sensors with an example.	(14)
		Module 3	

(14)

(14)

15 Name the various types of Solenoids. Explain any two in detail.

16 List out the various types of Injectors. Explain any two in detail.

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	. Module 4	
17	Write in detail about Disk rotatory actuators with an example.	
18	Explain about Claw pole rotatory actuator with a neat sketch.	(14)
	result claw pole lotatory actuator with a neat sketch.	(14)
	Module 5	
19	Interpret about Tachogenerators with a neat sketch.	
20	Write in detail about Cone jet proximity sensor with a neat sketch.	(14)
	sensor with a neat sketch.	