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SNS College of Technology, Coimbatore-35.
(An Autonomous Institution)
B.E/B.Tech- Internal Assessment -II
Academic Year 2023-2024(Odd Semester)
Seventh Semester

B

Electronics & Communication Engineering
19ECO401 – Advanced Sensor Technology

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART - A (5x 2 = 10 Marks)

		CO	Blooms
1.	List the different type of noises.	CO2	Rem
2.	Infer the features of Stepper motor.	CO2	Und
3.	Dissect the parts of vacuum chamber.	CO3	Ana
4.	Distinguish between Ferrous and Nonferrous metals.	CO3	Ana
5.	What is Micro-electromechanical systems (MEMS)?	CO3	Rem

PART – B (2*13=26 Marks and 1*14=14 Marks)

			CO	Blooms	
6.	(a)	Explain the Temperature Sensor interfacing and signal conditioning with suitable diagrams.	13	CO2	Und
		(or)			
	(b)	Apply the interfacing technique to connect the DC motor with 8051 Microcontroller.	13	CO2	App
7.	(a)	Examine the Silicon, Plastic and metal sensor materials and their characteristics with suitable examples.	13	CO3	Ana
		(or)			
	(b)	Illustrate the vacuum deposition process with suitable diagrams.	13	CO3	Und
8.	(a)	Apply the interfacing concept to control the DC motor rotation using Arduino microcontroller.	14	CO2	App
		(or)			
	(b)	Apply silicon micromachining techniques and explain the process of removing silicon materials.	14	CO3	App

CO-Course Outcome, Rem-Remembering, Und-Understanding, App-Appling, Ana-Analyzing, Eva-Evaluating, Cre-Creating

Course Coordinator

Teaching Coordinator

HoD/DEAN