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SNS College of Technology, Coimbatore-35.

(Autonomous)

B.E/B.Tech- Internal Assessment - I

Academic Year 2023-2024 (ODD)

Seventh Semester

Department of Mechatronics Engineering

19MCE402 - AUTOTRONICS

B

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer ALL questions

PART – A (5x 2=10 Marks)

	CO	Bloom's level	Marks
1. What are the importances of ignition timing?	CO2	Rem	2
2. List out the types of spark plug.	CO2	Rem	2
3. What is the use of airflow sensor?	CO3	Und	2
4. Write the importance of EGR in automotive system.	CO3	Und	2
5. Define hall effect.	CO3	Und	2

PART – B (13+13+14=40 Marks)

6.	(a) Explain the concepts of MPFI technology with a neat sketch.	CO2	Ana	13
	(or)			
	(b) Discuss the working principle of electronic ignition systems with a neat sketch.	CO2	Ana	13
7.	(a) Explain the working principle of exhaust gas oxygen sensor with a neat sketch.	CO3	Ana	13
	(or)			
	(b) Interpret the working principle of exhaust gas recirculation actuator with a neat sketch.	CO3	Ana	13
8.	(a) What do you mean by fuel system of an automobile? Explain with figure.	CO2	App	14
	(or)			
	(b) Describe the operation of a permanent magnet stepper.	CO3	App	14

Rem – Remembering, Und – Understanding, App – Apply, Ana – Analyzing, Eva – Evaluating, Cre - Creating

Prepared by

Verified by

HOD / Auto