Reg.No:							
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## SNS College of Technology, Coimbatore-35. (Autonomous)



## B.E/B.Tech- Internal Assessment -III Academic Year 2022-2023 (Even) Fourth Semester

## Mechanical Engineering

19MET205 – Metrology and Measurements

Time: 1<sup>1/2</sup> Hours Maximum Marks: 50

## **Answer All Ouestions**

		PART - A (5 x 2 = 10 Marks)			
				CO	Blooms
1.	1. Why is monochromatic light used in interferometer?				Rem
2. State the principle of CNC CMM.				CO 4	Und
3. Discuss about bimetallic thermometer.				CO 5	Und
4. State the principle of eddy current method.				CO 5	Und
5. List out the types of laser interferometer.				CO 5	Rem
		$PART - B (2 \times 13 = 26 \text{ Marks}) \text{ and } (1 \times 14 = 14 \text{ Marks})$	s)		
				CO	Blooms
6.	(a)	Apply the various laser scanning methods for measure the dimensions of object.	13	CO 4	App
		(or)			
	(b)	Summarize the working principle of dual frequency and Michelson interferometer.	13	CO 4	Und
7.	(a)	Compare the hydraulic load cell and strain gauge load cell in force measurements in industries.	13	CO 5	App
		(or)			
	(b)	List out types of temperature measurements and explain the temperature measuring techniques with using thermocouple.	13	CO 5	Rem
8. (	(a)				Und
		(or)			
	(b)	Summarize the use of dynamometer for measurement of torque.	14	CO 5	Und
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CO - Course Outcome, Und- Understanding, Rem- Remembering, App-Apply, Ana-Analyze, Eva-Evaluate

Prepared by

Verified by

**HOD/ Mech(Academics)**