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SNS College of Technology, Coimbatore-35.
(Autonomous)

B.E/B.Tech- Internal Assessment -I
Academic Year 2022-2023 (Even)

Fourth Semester

Mechanical Engineering

19MET205 – Metrology and Measurements

B

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART - A (5 x 2 = 10 Marks)

			CO	Blooms
1.		Write the basic elements of measuring system.	CO 1	U
2.		Differentiate accuracy and precision.	CO 1	U
3.		List out the linear measuring instruments.	CO 1	R
4.		State the working principle of comparator.	CO 2	U
5.		Write the uses of slip gauges.	CO 2	R

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

			CO	Blooms	
6.	(a)	Summarize the static performances of measuring instruments.	13	CO 1	U
		(or)			
	(b)	Analyze the various types of instruments in core industry for measuring the product.	13	CO 1	Ana
7.	(a)	(i) Review the types of standards in measuring process.	6	CO 1	R
		(ii) Demonstrate - How a micrometer used in linear measurements.	7	CO 2	U
		(or)			
	(b)	Demonstrate – How slip gauges used in measurements and explain it.	13	CO 2	R
8.	(a)	Appraise the various methods of measurement in industries and explain it.	14	CO1	App
		(or)			
	(b)	Construct and state the working principle of optical and electronics comparator.	14	CO 2	U

CO – Course Outcome, U- Understanding, R- Remembering, App-Apply, Ana-Analyze, E-Evaluate

Prepared by

Verified by

HOD/ Mech(Academics)