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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**



**Time: 1<sup>1/2</sup> Hours**

**Maximum Marks: 50**

**Answer All Questions**

**PART - A (5 x 2 = 10 Marks)**

			CO	Blooms
1.		Define metrology.	CO 1	U
2.		Define Accuracy.	CO 1	U
3.		List out the Controllable Errors.	CO 1	R
4.		Classify the Limit gauges.	CO 2	R
5.		State the working principle of transducer.	CO 2	U

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

			CO	Blooms	
6.	(a)	Appraise the different types of errors in measurement of product in industries and their causes.	13	CO 1	App
		(or)			
	(b)	Summarize the various elements of generalized measuring system?	13	CO 1	U
7.	(a)	(i) Distinguish between accuracy and precision.	6	CO 1	R
		(ii) Demonstrate - How a vernier caliper used in linear measurements.	7	CO 2	U
		(or)			
	(b)	Construct and state the working principle of mechanical and electrical comparator.	13	CO 2	R
8.	(a)	Appraise the different types of measuring instruments in core industries for measuring the product.	14	CO1	App
		(or)			
	(b)	List out the types of limit gauges and explain it	14	CO 2	U
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CO – Course Outcome, U- Understanding, R- Remembering, App-Apply, Ana-Analyze, E-Evaluate

Prepared by

Verified by

HOD/ Mech(Academics)