



Reg.No:

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

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

B.E/B.Tech- Internal Assessment -II
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. | | State any two limitations of sine bar. | CO 2 | Und |
| 2. | | List out the applications of auto collimator. | CO 2 | Rem |
| 3. | | Define the module in gear measurement. | CO 3 | Und |
| 4. | | Write short notes on profilograph. | CO 3 | Rem |
| 5. | | Define the pressure angle. | CO 3 | Und |

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

| | | | CO | Blooms | |
|-------|-----|--|----|--------|-----|
| 6. | (a) | Review the angular testing method by using Auto Collimator. | 13 | CO 2 | App |
| | | (or) | | | |
| | (b) | List out the types of angular measuring instruments and explain the applications of the sine center. | 13 | CO 2 | Und |
| 7. | (a) | (i) Review the tool maker's microscope in screw thread measurements | 7 | CO 3 | Rem |
| | | (ii) Explain the gear tooth vernier caliper for gear measurements. | 6 | CO 3 | Und |
| | | (or) | | | |
| | (b) | Summarize the method of profilometer and tomlinson surface meter for surface finish measurement | 13 | CO 3 | Rem |
| 8. | (a) | Review the angular testing method by using clinometers and angle telescope. | 14 | CO 2 | App |
| | | (or) | | | |
| | (b) | List out the terminologies of screw thread and explain with neat sketch.. | 14 | CO 3 | Und |
| ***** | | | | | |

CO – Course Outcome, Und- Understanding, Rem- Remembering, App-Apply, Ana-Analyze, Eva-Evaluate

Prepared by

Verified by

HOD/ Mech(Academics)