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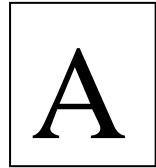
SNS College of Technology, Coimbatore-35.
(Autonomous)

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

Fourth Semester

Mechanical Engineering

19MET205 – Metrology and Measurements



Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART - A (5 x 2 = 10 Marks)

| | | | CO | Blooms |
|----|--|--|------|--------|
| 1. | | List out the angular measuring instruments | CO 2 | Rem |
| 2. | | State any two applications of angle dekkor. | CO 2 | Und |
| 3. | | Define constant chord method. | CO 3 | Und |
| 4. | | List out methods of surface finish measurements. | CO 3 | Rem |
| 5. | | Define the lead angle. | CO 3 | Und |

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

| | | | CO | Blooms | |
|----|-----|--|----|--------|-----|
| 6. | (a) | Demonstrate – How a Sine bar used in angular measurements | 13 | CO 2 | App |
| | | (or) | | | |
| | (b) | List out the types of bevel protractors and explain it. | 13 | CO 2 | Und |
| 7. | (a) | Review the screw thread measurement methods. | 6 | CO 3 | Und |
| | | (or) | | | |
| | (b) | List out the terminologies of gears and explain with neat sketch. | 13 | CO 3 | Rem |
| 8. | (a) | Review the angular testing method by using Auto dekkor. | 14 | CO2 | App |
| | | (or) | | | |
| | (b) | Summarize the method of tomlinson surface meter and profilograph for roughness measurement | 14 | CO 3 | Und |
| | | ***** | | | |

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

Prepared by

Verified by

HOD/ Mech(Academics)