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|---|----|--|-----|-------------|-----------|
| | c) | With a sketch define the following terms with respect to a screw thread. i)Major diameter ii)Pitch iii) Effective diameter iv) Angle of thread | CO1 | PO1 | 04 |
| | | UNIT - III | | | |
| 4 | a) | Differentiate between primary and secondary texture with an example | CO1 | PO1 | 08 |
| | b) | How Tomlinson surface meter is used for measuring surface roughness? Explain with neat sketch. | CO1 | PO1 | 12 |
| | | UNIT - IV | | | |
| 5 | a) | Define the following with respect to an instrument: i)Sensitivity ii)Response time iii)Threshold iv) Hysteresis v) Reproducibility | CO2 | PO2 | 10 |
| | b) | Explain with block diagram generalized measurement system with example for each stage elements. | CO2 | PO2 | 10 |
| | | OR | | | |
| 6 | a) | What is transducer? List the advantages of electrical transducers over mechanical transducers. | CO2 | PO2 | 06 |
| | b) | Explain with the help of a neat sketch the principle of working and construction of LVDT. Also draw and explain briefly the characteristic curve. | CO4 | PO9 PO12 | 14 |
| | | UNIT - V | | | |
| 7 | a) | Mention and explain the Applications of laser interferometer | CO3 | PO3 | 08 |
| | b) | Explain the main features of CMM and mention the main structures of CMM. Also mention its advantages. | CO4 | PO9 PO12 | 12 |
