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GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering - SEMESTER-IV • EXAMINATION - SUMMER • 2014

| 5 | | ct Code: 3342305 Date: 05-06-2014 | |
|------|------------|--|----------|
|] | - | ct Name: Process Instrumentation and Maintenance 10:30 am - 01:00 pm Total Marks: 70 | |
| 1 | nsu uc | Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. English version is considered to be Authentic. | |
| Q.1 | (a) (b) | Define the following terms related to instrumentation: precision, accuracy, resolution, dead zone, backlash, calibration, drift List and explain various personal protective equipments. | 07 07 |
| Q.2 | (a) (b) | Explain resistance thermometer with sketch, construction and working. List various pressure measurement instruments. Explain any one in detail. OR | 07 07 |
| | (b) | Explain various lubrication methods with examples. | 07 |
| Q.3 | (a) (b) | Explain open loop control system with examples. Also state its advantages. Explain types of wear along with causes of wear. OR | 07 07 |
| Q.3 | (a) (b) | Write short note on "PLC systems" State various types of maintenance. Explain any one in detail. | 07 07 |
| Q.4 | (a) (b) | Explain A.C servo motor with sketch. Write maintenance procedure for mould and dies. OR | 07 07 |
| Q. 4 | (a) (b) | State various types of lubricants. Explain any one in detail. Discuss various corrosion prevention techniques. | 07 07 |
| Q.5 | (a) (b) | Explain various safety measures in plastic processing plant. Define regulators and explain it with example. OR | 07 07 |
| Q.5 | (a) (b) | Draw and explain the instrumentation system with block diagram. Write the maintenance procedure for an injection moulding machine. | 07 07 |
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