

Tilak Maharashtra University
Diploma in Engineering
SUB: Instrumentation & Control System

Year –TY

Branch- E&TC

Semester -6th

Assignment No: I

- Q.1 Define transducer and classify them?
- Q.2 Explain the Type of Recorders?
- Q.3 Write short note on Data Acquisition System.
- Q.4 Explain close loop control system?
- Q.5 State seeback effect and peltier effect?
- Q.5 What is an Instrumentation Amplifier?

Assignment No: II

(Write any five)

- Q.1 Draw and Explain Data logger?
 - Q.2 Explain Piezo electric transducer?
 - Q.3 Draw and explain the components of Robot system.
 - Q.4 Explain Stepper motor?
 - Q.5 Write short note on: a) RTD
b) XY Recorder. Q.6
- Describe P + I control Action?

Assignment No: III

(Write any five)

- Q.1 Explain with neat block diagram generalized instrumentation System? Q.2 Write short note on: a) Thermocouple
b) Filter.
c) Strip chart Recorder.
- Q.3 What is SISO and MIMO system? Give examples of each?
- Q.4 Define - (a) Recorder (b) Precision (c) Slew Rate (d) Calibration.
- Q.5 Draw the block diagram of Regulated power supply & explain?