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 seebeck 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 Diego 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?