



**DIPLOMA IN ELECTRONICS (ROBOTICS) /
MECHATRONICS ENGINEERING**

CENTRALIZED QUESTION BANK

4047654 - PROCESS CONTROL PRACTICAL

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023

Course: Electronics (Robotics) / Mechatronics Engineering

Subject : Process Control Practical

QP Code : 4047654

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the Following Question

1. Construct and Test the Characteristics of different temperature sensors like
 - a. Thermocouple module
 - b. RTD
 - c. Thermistor module
2. Measure the Pressure using Strain Gauge type Transducer
3. Construct and Measure a Pressure using Bourdon type Transducer
4. Measure the Liquid Level by using Air purge method and Differential Pressure transmitter
5. Experimentally implement On- Off control of temperature process
6. Experimentally implement on – off control of pressure process
7. Experimentally implement on off control of level process
8. Construct and Test the Characteristics of control valve
9. Measurement of displacement using LVDT
10. Conduct experiment to understand the Tuning of Controller
11. Conduct experiment to observe the response of PI controller in a Pressure Process
12. Measure the response of PID controller using Pressure controller Trainer kit by Monitoring the process in SCADA mode / In Touch software /Analog mode
13. Conduct experiment to observe and test the response of PD controller in a Liquid Level process
14. Experimentally obtain the characteristics of P to I converter