DIPLOMA IN INSTRUMENTATION AND CONTROL ENGINEERING

CENTRALIZED QUESTION BANK

1042234320- MEASUREMENT OF PROCESS VARIABLES PRACTICAL

DIRECTORATE OF TECHNICAL

EDUCATION GOVERNMENT OF

TAMILNADU

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Instrumentation and Control Engineering

Subject : Measurement of Process Variables Practical   **QP Code :** 1042234320

Time : 3 Hours   **Date :**   **Session:**   **Max Marks:** 100

Answer the following Questions

1. Conduct an experiment to measure temperature using liquid in glass and bimetallic thermometer

2. Conduct an experiment to measure temperature using temperature transmitter and obtain the characteristics of it.

3. Conduct an experiment to measure low pressure using U-tube manometer

4. Conduct an experiment to measure pressure using Bourdon tube and LVDT setup

5. Conduct an experiment to calibrate pressure gauge using dead weight tester

6. Conduct an experiment to obtain the characteristics of DPT

7. Conduct an experiment to measure the flow rate using electromagnetic flow meter

8. Conduct an experiment to measure level using sight glass and float method

9. Conduct an experiment to measure level using level transmitter

10. Conduct an experiment to measure viscosity using say bolt viscometer

Allocation of Marks

Sl. No	Description	Marks
1	Drawing Front Panel & Block Diagram in Paper	20
2	Constructing Front Panel & Block Diagram in Simulator	30
3	Execution	10
4	Result	20
5	Record Note	10
6	Viva Voce	10
	Total	**100**