



DIPLOMA IN PRODUCTION ENGINEERING

CENTRALIZED QUESTION BANK

1025234440 - MECHANICAL INSTRUMENTATION

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION APRIL – 2025

Course: Production Engineering

Subject : Mechanical Instrumentation

QP Code : 1025234440

Time : 3 Hours

Date :

Session:

Max Marks:100

Answer the following Questions

- 1 Measure displacement by using inductive transducer.(Linear variable displacement transducer i.e. LVDT) and verify its characteristics.
- 2 Measure negative pressure or vacuum using McLeodgauge /Bourdon tube pressure gauge.
- 3 Measure temperature bythermocouple and verifying by thermometer.
- 4 Measure flow of liquid by rotameter.
- 5 Measure liquid level by capacitive transducer system.
- 6 Measure speed of rotating shaft by stroboscope
- 7 Measure speed of rotating shaft by inductive pickup.
- 8 Measure force or weight by load cell measurement trainer kit.
- 9 Measure strain by using basic strain gauge and verify the stress induced.
- 10 Measure Torque using Torque measurement Trainer kit.

Allocation of Marks

Sl. No	Description	Marks
1	Aim and procedure	10
2	Block Diagram	20
3	Reading and graph	15
4	Execution of circuit	15
5	Record of Work Done	40
	Total	100