



DIPLOMA IN PRODUCTION ENGINEERING

CENTRALIZED QUESTION BANK

1025234640 - APPLIED HYDRAULICS AND PNEUMATICS

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – APRIL 2025

Course : Production Engineering

Subject : Applied Hydraulics and Pneumatics

QP Code : 1025234640

Time : 3 Hours Date :

Session: Max Marks:100

Answer The Following Questions

- 1 Construct a hydraulic circuit to control hydraulic motor.
- 2 Construct a hydraulic circuit to control double acting cylinder.
- 3 Construct a meter-in and meter-out circuit to control the speed of double acting hydraulic cylinder.
- 4 Construct a hydraulic circuit to automatically operate a double acting cylinder using PLC kit.
- 5 Construct a hydraulic circuit to sequentially operate a double acting cylinder and a motor using PLC kit.
- 6 Construct a pneumatic circuit to control single acting and double acting cylinder.
- 7 Construct a meter-in and meter-out circuit to control the speed of double acting pneumatic cylinder.
- 8 Construct a pneumatic circuit to automatically operate (single cycle) a double acting cylinder using limit switch.
- 9 Construct a pneumatic circuit to automatically operate a double acting cylinder using PLC kit.
- 10 Construct a pneumatic circuit to sequentially operate a double acting cylinder and a motor using PLC kit.

Allocation of Marks

Sl. No	Description	Marks
1	Aim & Apparatus Required	5
2	Circuit Diagram	20
3	Connections/ Execution	25
4	Output /Result	10
5	Record of Work done	40
	Total	100