

# **BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY**

## **Unit Test-II Question Bank**

### **EIA-K Scheme (316329)**

#### **UNIT 2 PLC Fundamentals (18 M) (CO2)**

##### **2 M Questions**

1. State the working modes of PLC of PLC.
2. List different PLC's available in market.
3. Classify PLC according to size.
4. State the applications of Micro-PLC.
5. Compare PLC with Micro-PLC.
6. List types of PLC based on number of input, output

##### **4 M Questions**

1. Explain with neat block diagram Digital Output module of PLC.
2. Explain different International Standards for PLC IEC 61131.
3. Write the advantages of PLC based automation over Relay based automation.
4. Draw the Block diagram of analog input module of PLC. State the function of each block.
5. Draw block diagram of AC digital input module and explain the function of each block.

#### **UNIT 4 PLC Fundamentals (18 M)**

##### **2 M Questions**

1. State the Function of Seal-in circuit w.r.to PLC.
2. Write the I/O listing for water level controller and Stepper motor control
3. Draw the control wiring diagram of Forward–Reverse Control of 3-phase Induction motor.

##### **4 M Questions**

1. Explain with Ladder diagram Latching relay using PLC.
2. Develop Ladder diagram and wiring diagram for DOL starter with OLR contact.

3. Develop and Explain Bottle filling system using Ladder Diagram.
4. Draw and Explain Ladder Diagram for ON/OFF temperature Control.
5. Explain with neat Ladder diagram Stepper motor control.

## **UNIT 5 SCADA and DCS (10 M)**

### **2 M Questions**

1. Define SCADA and State its Function.
2. State the applications of SCADA.
3. Draw Block diagram of DCS.

### **4 M Questions**

1. Draw and Explain Block diagram of SCADA.
2. Distinguish between PLC, SCADA and DCS. (Any 8 Points)
3. State the Functions of DCS and write its applications.