

**Control of Electrical Machines  
Important 10 Mark questions**

**Unit I**

1. Explain the operation of dash pot oil filled relay with neat diagram.
2. With a neat sketch, explain the principle of operation of pneumatic timer.

**Unit II**

1. With a control circuit, explain the working of semi-automatic star-delta starter.
2. Draw and explain the control circuit of automatic 3 step rotor resistance starter for wound induction motor.

**Unit III**

1. Draw and explain the control circuit of electric oven.
2. With a neat diagram, explain the operation of the control circuit of air compressor.

**Unit IV**

1. Explain modes of operation of PLC in detail.
2. Explain the different types of manufacturing automation.

**Unit V**

1. Explain the working of rotor resistance starter using ladder diagram.
2. Explain the different types of counters used in PLC.