

### Q6. SET A

For a PLC-ladder logic, complete signal diagram is given in Fig Q6. Prepare a Ladder logic as per the given signal diagram. All the inputs are push button type. The output Y3 should be auto switch off after a fixed time duration. Input X3 is for Master-reset. Use Timer, Counter and Latching in the circuit. [7]

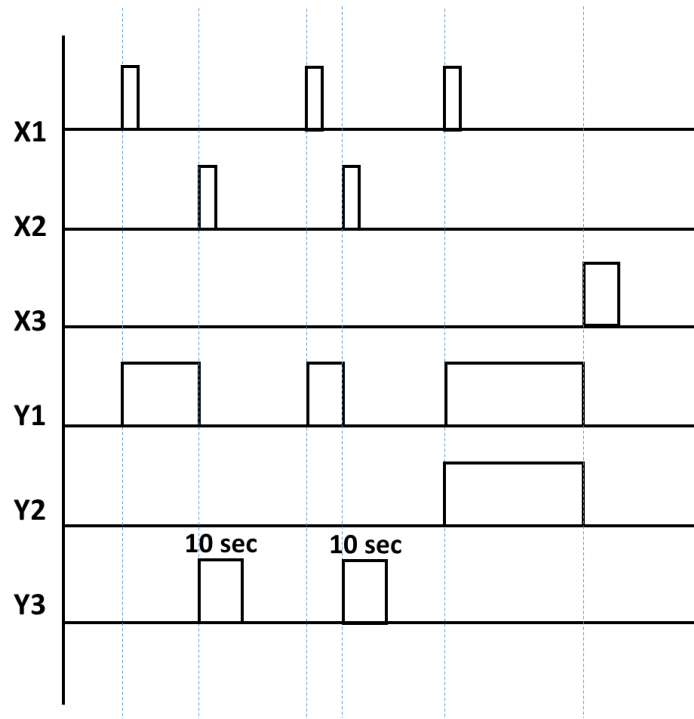


Fig Q6

