

Q.32 What are proximity switches.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Explain with comparison of PLC vs. dedicated controlled.

Q.34 Explain location of stop and emergency stop switches in safe PLC system.

Q.35 Explain basic operation and principle of PLC with diagram.

Q.36 Write short note on:-

- a) Even driven sequences masking.
- b) I/O structure of PLC

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6th Sem. / Power Elex.

**Subject : PROGRAMMABLE LOGIC CONTROLLERS
AND APPLICATIONS**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.1 Expand PROM_____.

Q.2 Switches are _____ devices in PLC.

Q.3 Expand NC instruction in ladder programming.

Q.4 Name any one PLC manufactures.

Q.5 List one limitation of PLC.

Q.6 ALU stands for_____.

Q.7 Define limit switch.

Q.8 PLC can be used in CNC machine (True/False)

Q.9 Expand NFQ instruction in PLC.

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Q.10 List one Input instruction of PLC.

SECTION-B

Note: Very Short answer type questions. Attempt any ten questions out of twelve questions(10x2=20)

Q.11 Expand GRT instruction.

Q.12 What is out put SCAN.

Q.13 Write any two major advantage of PLC over relay.

Q.14 Write any one counter instruction.

Q.15 Ladder logic has been developed to mimic _____logic.

Q.16 Define PLC scanning.

Q.17 Define MOV instruction.

Q.18 Sourcing is common_____ line.

Q.19 Write two advantage of PLC

Q.20 Write two output instruction.

Q.21 Define latch instruction.

Q.22 Draw the symbol of up counter instruction.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 Explain the function of PLC input output module.

Q.24 Name the different building blocks of PLC.

Q.25 Describe car parking through PLC.

Q.26 Explain latch circuit with the help of diagram.

Q.27 Differentiate between PLC vs. personal computer.

Q.28 Discuss I/O structure.

Q.29 Explain master control self holding relays.

Q.30 Write different programming languages used in PLC.

Q.31 Explain the classification of PLC.

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