

Subject Code: H4309/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

PROGRAMMABLE LOGIC CONTROLLERS & APPLICATIONS

(Common to PE, P&ID, PE&ED, PE&D, EM&D and PE&PS)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

1. Briefly explain the procedure for the construction of plc ladder diagrams?
2. a) Write the significance of digital logic gates.
b) Describe briefly about Drill press operation?
3. Enumerate the input instructions in PLC programming and also explain the outputs in PLC programming?
4. a) List out the industrial applications of PLC functions.
b) State the significance of holding registers.
5. Explain the counter function neatly and mention its industrial applications.
6. Explain about the functions with examples and applications.
 - a) Move
 - b) ONS
 - c) CLR
7. a) List out the applications of Matrix functions and sequence functions?
b) Write short notes on PID modules.
8. Briefly discuss about the analog modules in PLC operation?

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