

- Q.28 Describe how SFRs are accessed and give examples of commonly used SFRs in 8051.
- Q.29 Give names of any five PLC manufacturers .
- Q.30 What do you mean by ON-Delay timer in PLC?
- Q.31 Explain the difference between assembler and compiles in case of microcontroller ?
- Q.32 What are the differences between a microprocessor and a microcontroller ?
- Q.33 Write any five applications of microcontrollers .
- Q.34 Describe the role of the EEPROM memory in a PLC microcontroller.
- Q.35 Draw the pin diagram of 8051 microcontroller.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain various addressing modes of 8051 microcontroller with examples.
- Q.37 Draw the detailed block diagram of a PLC and explain the function of each block in detail.
- Q.38 Write short note any two :
- Comparison instructions of PLCs.
 - Application of PLCs in bottling operations.
 - Interfacing keypad with 8051 microcontroller .

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6th Sem / Elect, Eltx, Mecatronics, GE, Power Station Engg., Elect & Eltx Engg.

Subject:- Programmable Logic Controllers And Microcontrollers/ Microcontollers And PLCs

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The programmable logic controllers are used in _____
- Glass and paper industry
 - Process automation plants
 - Cement manufacturing
 - All of the above
- Q.2 An AND Function implemented in ladder logic uses:
- Normally-closed contacts in series
 - Normally-open contacts in series
 - A single normally-closed contact
 - Normally-open contacts in parallel
- Q.3 The 8051 is a:
- Microprocessor
 - Microcontroller
 - Digital Signal Processor (DSP)
 - Field-Programmable Gate Array (FPGA)
- Q.4 The programming language most commonly associated with basic PLC programming is:
- c++
 - Java
 - Ladder Logic
 - Python

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