

- Q.20 Draw the Architecture Block diagram of 8051 Microcontroller.

Q.21 What do you understand by Arithmetic Instructions. Explain few of them.

Q.22 Define Interrupt. How many Interrupts are available in 8051 Microcontroller. Explain any them.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Draw PIN Diagram of 8051 Microcontroller and explain each one in detail.

Q.24 Explain various criteria which needs to be considered for selection of Microcontroller.

Q.25 Explain various modes of Timer in 8051 Microcontroller.

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4th Sem./ ECE, Automation & Robotics, ECE, (For Speech and Hearing Impaired)

Subject : Microprocessor and Micro-controllers

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.4 Selection of register bank is made possible through _____

- a) SBUF
- b) PSW
- c) SCON
- d) PCON

Q.5 An _____ is required whenever a computer needs to understand physical parameters like sound, pressure, velocity using a transducer.

- a) Digital to Analog Convertor
- b) Analog to Digital Convertor
- c) Programming Logical Control
- d) Liquid Crystal Display

Q.6 The group of memory locations set aside to hold the addresses of ISRs is called _____

- a) Service Routine table
- b) Interrupt Service Table
- c) Interrupt Vector Table
- d) Routine Data Table

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 In 8051 microcontroller, crystal oscillator has frequency of _____

Q.8 CISC stands for _____

Q.9 Set of instructions is known as _____

Q.10 LED stands for _____

Q.11 USART stands for _____

Q.12 _____ Register is used to control transmit and receive operations in serial communication in 8051 microcontroller(SCON/PCON)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain the difference between Microprocessor and Microcontroller.

Q.14 Define programming Language. What are different types of programming languages are used in 8051 Microcontroller.

Q.15 List few features of 8051 Microcontroller.

Q.16 How many Timers are associated with 8051 Microcontrollers. Explain the functions of Registers for functioning of Timer.

Q.17 What do you understand by Addressing Modes. Explain Immediate addressing mode with suitable example.

Q.18 Explain Reset Circuit of 8051 Microcontroller along with its diagram.

Q.19 Name different serial communication modes available in 8051 with their main features.