No. of Printed Pages : 4 221042/212842
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4th Sem / ECE, Automation & Robotics, ECE
(For Speech and Hearing Impaired)
Subject : Microprocessor and Microcontrollers

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 A _____is a small and low cost microcomputer, which is designed to perform specific tasks.

a) Microprocessor b) Micro controller
c) FET d) MOSFET

Q.2 Program Memory of 8051 Micro controller is of capacity_____

a) 4KB b) 10KB
c) 2KB d) 12KB

Q.3 ANL,ORL,XRL,CLR come under_____.

a) Data Transfer Instructions
b) Arithmetic instructions
c) Logical Instructions
d) Program Branching Instructions

Q.4 In order to select register bank,2 bits which register are selected.

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

Q.5 Analog signal is converted in to digital ones using the technique of _____.

a) Quantization And Encoding
b) Dequantization and Decoding
c) Filtration
d) Voltage Regularization

Q.6 Program which is associated with the interrupt is called

a) Task
b) Interrupt service Routine
c) Interrupt Program
d) Interrupt Vector Table

SECTION-B

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

Q.7 Intel 8051 is based on _____ Von Neuman Architecture / Harvard Architecture

Q.8 RISC stands for _____.

Q.9 Command given to the micro controller for performing a specified operation on presented data is called_____.

Q.10 LCD stands for _____.

Q.11 USART stands for _____.

Q.12 Sequence of interrupt priority can be altered by programming the _____register. (IE/IP)

SECTION-C

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

Q.13 Explain the difference between Microcomputer and Microprocessor.

Q.14 Define programming Language. What are advantages of programming in C in 8051 Micro controller.

Q.15 What do you understand by Addressing Modes. Explain Register addressing mode with suitable Example.

Q.16 How many Times are associated with 8051 Micro controllers. Explain the functions of Registers for Functioning of Timer.

Q.17 Explain Crystal Circuit of 8051 Micro controller along with diagram.

Q.18 Explain the SFRs associates with serial communication of 8051 Micro controller.

Q.19 Define interrupt. How many Interrupts are available in 8051 Micro controller . Explain any of them.

Q.20 What do you understand by Data transfer Instructions. Explain few of them.

Q.21 Draw PIN Diagram of 8051 Micro controller.

Q.22 List few features of 8051 Micro controller.

SECTION-D

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

Q.23 Draw the block Diagram of 8051 Micro controller.. Explain Each Block in detail.

Q.24 What is serial Communication . Explain various modes of serial Communication.

Q.25 Explain various criteria which needs to be considered for selection of Micro controller.