



(Semester IV)

- c) CPU, RAM, ROM, I/O devices, serial and parallel ports and timers d) CPU, ROM, I/O devices and timers
- (ix) Explain how the 8051 stores and uses a memory byte address using the appropriate register
- a) DPTR b) PCON
c) SBUF d) PSW
- (x) Identify how many register banks are present in 8051 microcontroller
- a) 4 b) 3
c) 2 d) 1
- (xi) Identify The number of stop bits in case of asynchronous data transfer
- a) 2 bits b) 3 bits
c) 4 bits d) 5 bits
- (xii) During IO operation IO/M' signal will be indicated as
- a) LOW b) Tristate
c) HIGH d) None of these
- (xiii) Give example of string instruction in 8086 microprocessor
- a) MOV DX, [SI] b) XLAT
c) MOVSB d) AAD
- (xiv) Choose the correct statement: when a RET instruction is executed at the end of a subroutine
- a) The memory address of RET instruction is transferred to the program counter b) two data byte stored in the loop locations of the stack are transferred to the stack pointer
c) two data where the stack is initialized is transferred to the stack pointer d) two data bytes stored in the top two locations of the stack are transferred to the program counter
- (xv) Suppose registers 'A' and 'C' contains 5FH and 26H respectively. After instruction SUB C, determine the contents of registers A
- a) 85 H b) 39 H
c) 26H d) 57 H

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Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the operation of following pins of 8085 microprocessor: READY, HOLD, HLDA (3)
3. Define microprocessor, microcontroller, and microcomputer. (3)
4. Differentiate between 8085 and 8086 microprocessor. (3)
5. Distinguish between microprocessor and micro-controller. (3)
6. Write a program for logical OR operation of two 8-bit number using 8085 microprocessor. (3)

OR

- Write an Assembly Language Program to find 1's and 2's complement of a 8-bit number and stored them in two memory locations. (3)

Group-C
(Long Answer Type Questions)

5 x 6=30

7. Describe the flag register of the 8085 microprocessor in brief. (5)
8. With example explain various addressing modes of 8085 microprocessor. (5)
9. Describe the minimum mode pin configuration of 8086 microprocessor with the function of each pin (5)
10. Explain different groups of instructions of 8051 micro-controller with examples. (5)
11. Sketch the pin diagram of 8051 microcontroller and explain the operations of the following pin: (5)
(a) RxD (b) TxD
12. With examples, explain the various addressing modes of 8086 microprocessor. (5)

OR

With example, classify the instructions of 8086 microprocessor on the basis of the length of instructions. (5)

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