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Total No. of Pages: 0							Roll No.
Total No. of Questions: 0							

B. Tech. (IT, CSE) (Sem.-4th) MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING

Subject Code: CS-208 Paper ID: [A0461]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

1. Attempt Q1 of Section A, any four questions from section B, and any two questions from section C.

SECTION-A

Q.1. Answer the followings:-

10x2 = 20

- (a) Why microprocessor based systems are called flexible & dedicated?
- (b) Difference between assembler and compiler.
- (c) Difference between instruction and a microinstruction.
- (d) Role of clock in microprocessor.
- (e) Role of Input/output Processor.
- (f) Features of 68000 microprocessor.
- (g) Uses of microprocessor development system.
- (h) Function of stack.
- (i) Role of hardware interrupts
- (j) Role of software interrupts.

SETION-B

- Q.2. Discuss the various addressing modes of 8085 along with their applications. (5)
- Q.3. (a) In what way 8086 is better than 8085? What are its limitations? (5)
 - (b) Write what do you know about single chop microcomputer? (5)
- Q.4. List the various I/O data transfer techniques. Explain DMA based I/O data transfer technique. (5)
- Q.5. Write an 8085 program is multiply two 8 bit binary members which are stored at 2000 H AND 3000 H respectively. Use multiplication as a subroutine write program. Starting from 5000 H and the multiplication subroutine from 6000h. (5)
- **Q.6.** Discuss fetch and Execution cycles of 8085 by considering an instruction. (5)

Page: 1

SECTION-C

- Q.7. (a) Draw line block diagram of 8085 microprocessor Showing its architecture and explain the role of its important elements. (5)
 - **(b)** Explain the difference between instruction machine & clock cycles. (5)
- Q.8. Discuss in detail an application of 8085 for controlling traffic lights in a busy crossing.(10)
- **Q.9.** Write notes on any two of the followings:- (5x2=10)
 - (a) 8251 chip
 - (b) Various flags of 8085
 - (c) 8085 Interrupt System

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