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Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE/IT) (Sem.-4)

MICROPROCESSOR & ASSEMBLY LANGUAGE PROGRAMMING

Subject Code : CS-208

Paper ID : [A0461]

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

- I. Write short notes on :
 - (a) Draw Timing diagram of Machine Read Cycle.
 - (b) Give the significance of SIM and RIM instructions available in 8085.
 - (c) Differentiate Microprocessor, Microcomputer and a Microcontroller.
 - (d) What is the purpose of Status Signals in 8085?
 - (e) What is the significance of PUSH and POP instructions?
 - (f) What is Flag Register in Motorola MC 68000?
 - (g) What operation does following instruction perform in 8085?
 - (I) XRI FFH
 - (II) ANI FFH
 - (h) What is Synchronous and Asynchronous Communication?
 - (i) What does DMA stand for? Which signals of 8085 are used for DMA Transfer?
 - (j) Role of Hardware Interrupts.

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SECTION-B

- 2. What is PROM programming? Explain with suitable instructions.
- 3. Write an Assembly Language program using 8085 Microprocessor instruction set to arrange N numbers in an ascending order.
- 4. Explain the concept of Machine Cycle, Instruction Cycle and T-state with the help of an example.
- 5. Draw the block diagram of Internal Architecture of 8086. Explain the function of each block.
- 6. Describe Serial and Parallel Data Transfer techniques.

SECTION-C

- 7. Design a memory interfacing circuit for interfacing : two 4K byte EPROM and four 4K byte RAM chips with 8085 Microprocessor. Also specify the memory address range of each chip. (Use absolute decoding and 3×8 decoder)
- 8. Explain how a Stepper Motor can be interfaced with 8085 Microprocessor.
- 9. Draw and explain the block diagram of Microprocessor based Traffic Control System. Also draw flow chart showing working of the system.

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