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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:

- 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

1) Write briefly:

- a) What is a microprocessor? What is the difference between a microprocessor and a CPU?
- b) What is program counter and why is it required?
- c) What is Emulator?
- d) Explain the format and functions of RIM, SIM and DAA instructions of 8085.
- e) What is the significance of Z and CY flag in microprocessor?
- f) What are the second bytes in the instructions IN and OUT? How are they determined?
- g) Discuss DMA Controller briefly.
- h) Write the advantages of the assembly language in comparison with high level language.
- i) Explain why the number of output ports in the peripheral mapped I/O is restricted to 256.
- j) List the four categories of 8085 instructions that manipulate data?

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SECTION-B

- 2) What are the various registers used in 8085? Explain in detail.
- 3) Sketch and explain the timing diagram of an input transfer on a synchronous bus.
- 4) Write an assembly language program for 8085 for 16 bit multiplication.
- 5) What are the functional blocks available in 8051? Explain with a block diagram.
- 6) Show and explain the interfacing of seven segment display with 8085 microprocessor.

SECTION-C

- 7) Draw the circuit for interfacing the processor, memory and I/O devices through DMA and explain its functioning in detail. (10)
- 8) Explain the circuit diagram of interfacing the 8085 microprocessor with stepper motor.

(10)

- 9) a) What is the function of 8251 chip? Discuss in detail. (07)
 - b) Explain the addressing modes of 8086. (03)

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