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TCS-403

B. TECH. (FOURTH SEMESTER) MID SEMESTER EXAMINATION, April/May, 2022

MICROPROCESSOR

Time: 11/2 Hours

Maximum Marks: 50

Note: (i) Answer all the questions by choosing any *one* of the sub-questions.

- (ii) Each question carries 10 marks.
- 1. (a) What do you mean by the microprocessor? Discuss the classification and evolution of microprocessor.

10 Marks (CO1)

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(b) Draw and discuss the internal architecture of 8085. 10 Marks (CO1)

2. (a) Draw the flag register of 8085 and discuss all flags with suitable examples.

10 Marks (CO1)

OR

- (b) What do you mean by the multiplexed address/data bus of 8085? Explain its demultiplexing with the help of a neat block diagram.

 10 Marks (CO1)
- 3. (a) Draw a neat pin diagram of 8085. Explain the function of HOLD and HLDA pins.

10 Marks (CO1)

OR

(b) Design an interfacing circuit to connect a 2 KB RAM with 8085 such that the starting address is 4000H. What will be the last address of this RAM?

10 Marks (CO1)

4. (a) What do you mean by an addressing mode? Discuss all addressing modes of 8085. 10 Marks (CO2)

OR

(b) Write a 8085 assembly language programme to transfer a block of 16 bytes stored in contiguous memory locations at a starting address 2050H to a new memory locations starting at address 2060H.

10 Marks (CO2)

5. (a) Discuss 8085 interrupts in detail.

10 Marks (CO2)

OR

- (b) Explain the following 8085 instructions with suitable examples: 10 Marks (CO2)
 - (i) STA
 - (ii) LXI
 - (iii) DAD
 - (iv) RAL

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