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B.Tech. (Sem. - 4th)

MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING

SUBJECT CODE: CS-208

<u>Paper ID</u>: [A0461]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

Section - A

Q1)

 $(10 \times 2 = 20)$

- a) What do you mean by a synchronous and asynchronous bus? Give one example of each.
- b) Difference between direct and indirect address instruction.
- c) Explain Bus system.
- d) Differentiate between Min and Max modes of 8086 microprocessor.
- e) Name the various flag bits available in an 8085 microprocessor.
- f) Give the significance of SIM and RIM instructions available in 8085.
- g) Discuss various types of RAM.
- h) What is the purpose of CLK signal in an 8085 system?
- i) Differentiate a microprocessor and a microcontroller.
- j) List the various types of interrupt signals available in 8085.

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$$(4 \times 5 = 20)$$

- Q2) Discuss DMA.
- Q3) Explain any five addressing modes, with the help of an example of each.
- Q4) Discuss various data transfer instructions in 8085 Assembly Language.
- Q5) Explain Instruction Cycle in detail.
- Q6) Name the various registers and their usage in 8085 processor.

$$(2 \times 10 = 20)$$

- Q7) Explain the architecture of 8086 Microprocessor.
- Q8) Explain 4-way interleaved memory architecture with the help of diagram.
- Q9) (a) Give the PIN details of an 8051 microcontroller and explain.
 - (b) Differentiate between PROM and EPROM



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