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Total No. of Ouestions: 091

[Total No. of Pages: 02

B.Tech. (Sem. - 4th)

MICROPROCESSOR AND ASSEMBLY LANGUAGE **PROGRAMMING**

SUBJECT CODE: CS-208

Paper ID: [A0461]

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

Maximum Marks: 60 Time: 03 Hours

Instruction to Candidates:

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

Section - A

Q1

 $(10 \times 2 = 20)$

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





 $(4 \times 5 = 20)$

- 02) 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.

Section - C

 $(2 \times 10 = 20)$

- 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

