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Total No. of Questions : 09]

[Total No. of Pages :02

Maximum Marks: 60

 $(10 \times 2 = 20)$ 

erz

# Paper ID [A0461]

(Please fill this Paper ID in OMR Sheet)

#### **B.** Tech. (Sem. - 4<sup>th</sup>)

## MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING (CS - 208)

### Time : 03 Hours

Q1)

#### 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

# a) Specify the function of address bus and the direction of the information flow on address bus.

- b) What happens in a single board microcomputer when the power is turned on any reset key is pushed?
- c) How many memory locations can be addressed by a microprocessor with 14 address lines.
- d) What is the function of accumulator?
- e) Discuss flag register for 8085 μp.
- f) Give the number of data bus and address bus for  $8086 \mu p$ .
- g) Give microprocessor applications.
- h) What are the differences between microcontroller and microprocessors?
- i) What do you meant by opcode and operands?
- i) State difference between synchronous and asynchronous bus.

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*P.T.O.* 

#### Section - B

 $(4 \times 5 = 20)$ 

Q2) Discuss the memory mapped I/O technique and its use.

Q3) What are the functions of stack pointer and program counter?

**Q4**) Show and explain the interfacing of stepper motor with 8085  $\mu$ p.

**Q5)** Discuss ROM and RAM used for microprocessors.

*Q6)* What do you mean by DMA? Explain its working.

# Section - C

 $(2 \times 10 = 20)$ 

Q7) Draw and explain the architecture of 8085 microprocessor.

Q8) Discuss the interfacing of matrix keyboard with microprocessor in detail.

*Q9)* What do you mean by addressing modes? Discuss various addressing modes for 8085 microprocessor with suitable examples.

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