Download all Notes and papers from StudentSwwindharsobjects.com

Roll No:
Total No. of Questions: 09]

[Total No. of Pages :02

Paper ID [A0461]

(Please fill this Paper ID in OMR Sheet)

B. Tech. (Sem. - 4th)

MICROPROCESSOR AND ASSEMBLY LANGUAGE PROGRAMMING (CS - 208)

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) 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 μp.
- g) Give microprocessor applications.
- h) What are the differences between microcontroller and microprocessors?
- i) What do you meant by opcode and operands?
- j) State difference between synchronous and asynchronous bus.

P.T.O.

E-387 [1208]

Download all Notes and papers from StudentSuvidha.com

Section - B

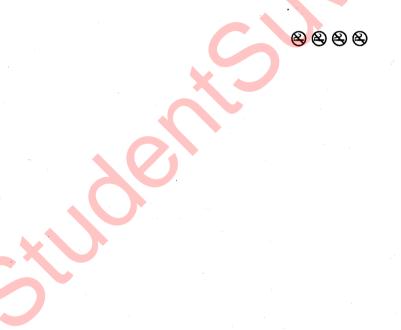
 $(4 \times 5 = 20)$

- 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 μp.
- 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.



E-387

2