

Roll No.

Total Pages : 02

BT-4/M-20

34095

**MICROPROCESSOR AND INTERFACING
CSE-208N**

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit I

1. With a neat and clean sketch explain the internal architecture of 8085 Microprocessor. **15**
2. Draw the pin configuration of 8085 Microprocessor and explain the function of all the pins in detail. **15**

Unit II

3. Describe data registers, address registers and index registers of 8086. **15**
4. Draw and explain the block diagram and pin diagram of 8086 microprocessor and discuss generation of CLK and reset signal using 8284. **15**

Unit III

5. Describe 8086 addressing modes in detail with suitable examples. **15**
6. (a) Discuss the following assemble directives :
(i) ASSUME
(ii) SEGMENT. **6**
- (b) Write a programme to compute factorial for a number N between 1 and 8. **9**

Unit IV

7. Discuss the function of DMA controller (8237) with suitable diagram. **15**
8. (a) Describe the operation, characteristics and interfacing of D/A covnertor with 8086 Microprocessor. **6**
- (b) Write short notes on the following :
(i) Description and interfacing of 8251
(ii) Interfacing of 8×8 Keyboard. **9**