

Roll No.

3227

**B. Tech. 5th Semester (CSE)
Examination – March, 2021**

MICROPROCESSOR

Paper : ESC-CSE-301-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following :

- | | |
|-----------------------------------|-----|
| (a) Assembly Language Programming | 2.5 |
| (b) BIU | 2.5 |
| (c) Directive and Operators | 2.5 |
| (d) DMA | 2.5 |
| (e) Memory Segmentation | 2.5 |
| (f) HLT instructions | 2.5 |

UNIT - I

2. What do you mean by Interrupts ? Describe different types of interrupts of 8085 processor and also discuss about the priority of these. 15

3. How Instruction Set Works ? Explain the instruction set of 8085 microprocessor in detail. 15

UNIT - II

4. Explain the following in detail :

(a) Addressing Modes of 8086. 10

(b) Physical Address Computations 5

5. Draw and describe the architecture of 8086 microprocessor along with its pin diagram in detail. 15

UNIT - III

6. Discuss the following :

(a) Flag manipulation Instructions Vs logical Instructions. 8

(b) Branch Instructions with examples. 7

7. What are different kinds of data transfer instructions ? Discuss. Explain the shift and rotate instructions in detail with example. 15

UNIT - IV

8. What do you mean by interfacing ? Explain the interfacing of keyboard and seven segment display in detail. 15

9. What do you mean by PIC ? Explain using suitable architecture along with its applications. 15