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

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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

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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

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