Roll No.

OLE-3227

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

MICROPROCESSOR

Paper: ESC-CSE-301-G

Time: Three Hours]

[Maximum Marks: 75

Before answering the question, 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.** (a) Describe the function of SP and PC register of 8085 microprocessor.
 - (b) What do you understand by pipelining?
 - (c) Explain DAA instruction using an appropriate example.
 - (d) Describe CWR of 8255 briefly.
 - (e) What do you understand by handshake signals?

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(f) Define opcode and operand, and specify the opcode and operand in the instruction MOV H,L. $2.5 \times 6 = 15$

UNIT - I

- **2.** (a) Explain the demultiplexing of AD_7 - AD_0 in 8085 with the help of neat diagram.
 - (b) Explain in detail the pin diagram of 8085 microprocessor. 7.5
- **3.** (a) Write a program to find the largest number among five numbers. Considering the numbers are at memory locations from 2051H to 2055H and save the result at memory location 3050H. 7.5
 - (b) Explain the logical instructions of 8085 microprocessor with the help of appropriate examples. 7.5

UNIT - II

- **4.** (a) Explain the concept of segmented memory. What are its advantages?
 - (b) Draw and discuss flag register of 8086. 7.5
- **5.** (a) Explain the addressing modes of 8086 with suitable examples. 7.5
- (b) Explain the function of BIU and EU of 8086. 7.5

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UNIT - III

6.	(a)	Draw and discuss the read and write cycle time diagrams of 8086 in minimum mode.	ning 7.5
	(b)	1	rs of 7.5
7.	Write a program to move a byte string, 16 bytes long from the offset 0200H to 0300H in the segment 7000H		
	Use	e string instructions. UNITEDIV	15
8.	(a)	Explain the block diagram of Intel 8255 in de	tail. 7.5
	(b)	Explain the BSR mode of operation of Intel 825.	5.
		City	7.5
9.	(a)		
		8259 in detail.	7.5
	(b)	Explain the block diagram of Intel 8253.	7.5

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