24230

B. Tech. 5th Semester (CS & IT) (Common With Special Chance) Examination – December, 2019

MICROPROCESSING & INTERFACING

Paper: EE-309-F

Time: Three Hours 1

[Maximum Marks: 100

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 Section. Question No. 1 is compulsory. All questions carry equal marks.

- 1. (a) What are data transfer instructions and arithmetic instructions?
 - Define Direct memory access.
 - Explain shift and rotate instructions.
- (d) What is wrong with a MOV instruction? $5 \times 4 = 20$ 24230-6,400-(P-3)(Q-9)(19) P. T. O.

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	SECTION - A
2. (a)	What are control and status signals ? Explain them.
(b)	Discuss the architecture of 8085 micro-processor. 10
3 . (a)	Differentiate between vectored and Non vectored interrupt. Also explain interrupt structure with proper diagram.
(b)	Write a program to calculate the sum of the series of even numbers.
	SECTION - B
4 . (a)	Define addressing modes. Explain various addressing modes in 8086 microprocessor.

- - (b) Explain PIN diagram of 8086 microprocessor.

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- 5. (a) Explain instruction formats 8086 microprocessor in detail. 15
 - (b) What are flag manipulation instructions?

SECTION - C

6. (a) Write a simple assembly Language program to add two memory locations where each memory Location is one byte wide. 10

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- (b) Explain directives used in assembly Language program. Why are segment directives used? 10
- 7. (a) Explain instruction execution timing with example.10
 - (b) Explain NOP and HLT instructions with the help of suitable example.10

SECTION - D

- 8. (a) Explain BSR and I/O modes of 8255 PPI chip. 10
 - (b) Explain PIN Diagram of 8237 DMA Controller. 10
- Explain interfacing of 8255 programmable peripheral device with keyboard and seven segment display with the help of a program.

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