**R10** 

Code No: R32024

Set No. 1

## III B.Tech II Semester Supplementary Examinations, October/November-2020 MICROPROCESSORS AND MICROCONTROLLERS

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 75

## **Answer any FIVE Questions** All Questions carry equal marks

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1	a) b)	With a neat block diagram explain the architecture of 8086 Microprocessor. Discuss the significance of Memory Organization of 8086.	[8M] [7M]
2	a)	Draw and explain the read and write cycle timing diagrams of 8086 in minimum mode.	[8M]
	b)	List the addressing modes of 8086 with an example of each.	[7M]
3	a) b)	What are the Assembler directives and explain them briefly. Discuss the function of the following: (i) Loop (ii) REPEAT (iii) WHILE.	[8M] [7M]
4		With a neat sketch explain the internal architecture of 8255.	[15M]
5	a) b)	Enumerate the Command words and operating modes of 8259. Explain the static memory interfacing with 8086.	[8M] [7M]
6	a)	Explain the Memory Organization in 8051 micro controller.	[8M]
	b)	Describe the critical special function register formats of 8051.	[7M]
7	a) b)	What are the addressing modes of 8051? Explain them briefly. Mention the interrupts of 8051. Explain them briefly.	[8M] [7M]
8	a)	Explain the difference between common anode and common cathode of 7-segment LEDS.	[8M]
	b)	Enlist the applications of Micro Controllers.	[7M]

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