Code: EEPC1T1

I M. Tech-I Semester-Regular Examinations-February 2016

MICROPROCESSORS & MICROCONTROLLERS (POWER SYSTEM CONTROL AND AUTOMATION)

Duration: 3 hours Max. Marks: 70 Answer any FIVE questions. All questions carry equal marks

- 1 a) How many memory locations are available in 8086 microprocessor.

 4 M
 - b) Explain the architecture of 8086 with the help of a block diagram.
- 2 a) What are the general purpose registers in 8086? 7 M
 - b) Describe the sequence of event that may occur during the different T state in the opcode fetch machine cycle of 8086.
- 3 Explain the Maximum mode of operation and timings of 8086.
- 4 a) Explain Programmed I/O and Interrupt I/O. 7 M

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	b) What is DMA? Explain the need of DMA.	7 M
5	a) Explain the stack structure of 8086.	7 M
	b) Explain the following interrupts i) NMI ii) INTR	7 M
6	a) Explain various operating modes of 8255 PPI.	10 M
	b) Explain briefly about Interfacing D to A converters	4 M
7) What are the different modes of operation 8251 USART.	
		7 M
	b) Explain FIFO status word of 8279.	7 M
8	Explain the architecture of 8051 microcontroller with a near	
	block diagram.	10 M
	Explain different modes of operation of timer in 8051. 4 M	