Code: EEPC1T1

## I M. Tech-I Semester-Regular Examinations-April 2015

## MICROPROCESSORS & MICROCONTROLLERS (POWER SYSTEM CONTROL AND AUTOMATION)

Duration: 3 hours		Marks: 5x14=70		
A	nswer any FIVE questions.	All questions carry equa	l marks	
1	a) What are the advantages of having segmentation? Hooes the 8086 microprocessor support segmentation			M
	b) Describe the different ac microprocessor.	ddressing modes of 8086	5 N	M
	c) How is pipelining achiev	zed in 8086 microprocesso	or? 4 N	М
2	a) Draw and discuss the bu Microprocessor during V		7 N	М
	b) Explain how 8086 enters diagram.	s into WAIT state with nea	at 7 N	Л
3	Explain about various assembler directives of 8086.		1 / N	Æ
4	a) Explain Programmed I/C	and Interrupt I/O.	14 N 7 M	VI
	b) What is DMA? Explain	the need of DMA.	7 N	Л

5	a) Explain the stack structure of 8086.	7 M	
	b) Explain the following interrupts.	7 M	
	i) NMI ii) INTR		
6	a) Explain various operating modes of 8255 PPI.	0 M	
	b) Explain briefly about Interfacing A to D converters.	4 M	
7	a) What are the different modes of operation 8251 USART.		
		7 M	
	b) Explain FIFO status word of 8279.	7 M	
Q	a) Discuss the addressing mode available in 8051 with an		
0	example to each module.	7 M	
	b) Discuss the function of TCON and TMOD special func	ction	
	registers.	7 M	

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