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	_	Roll No.		[Total No. of Pages : 2		
5			5E5042			
5F5042		B.Tech. V Semester (Main	,	tion, Nov./Dec 2017		
L		5EE2A Microproces	ical Engineering sors & Computer A	rchitecture		
		3 Hours		Maximum Marks: 80		
1 111		3 Hours		Min. Passing Marks: 26		
Inst	ruct	tions to Candidates:				
	car An	empt any five questions , selectry e qual marks. (Schematic y data you feel missing suite antities used/calculated must	diagrams must be ably be assumed as	shown wherever necessary.		
Unit - I						
1.	a)	Explain the following terms	with respect to 808:	5 Microprocessor. (8)		
		i) Address bus	ii) Data bus	iii) Control bus		
	b)	Describe the Architecture o	f 8085 Microprocess	sor. (8)		
			OR ·	•		
1.	a)	Describe the memory organ	ization? Also explain	n various types of Interrupts. (8)		
	b)	Explain the various types of	f Signals and Pins us	ed in 8085 Microprocessor? (8)		
Unit - II						
2. a) What are Subroutines? How they are useful?			(8)			
	b)	Explain MVI and LXI instru	ections using suitable	example? (8)		
OR						
2.	a)	Explain the Classification o suitable example.	of the instruction set	of 8085 microprocessor with (8)		
	b)	Write short note on Counter	rs & Time delay.	(8)		

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Unit - III

Exp	plain the 8279 to be used with the 8085 microprocessor? (16)	
	OR		
a)	Draw and explain the block diagram of 8257 DMA controller?		
b)	Draw and explain the block diagram of 8155 multipurpose programmable device. How does it differ from 8255. (8)		
	Unit - IV		
a)	Give a brief discussion on Instruction set of 8086 microprocessor?	(8)	
b)	Explain Hardware and Software interrupts of 8086 microprocessor.	(8)	
	OR		
a)	Explain the memory addressing and memory segmentation for 8086 Micro-processor? (8)		
b)	Explain the Architecture of INTEL 8086?		
	Unit - V		
a)	Explain the following types of memory-		
	i) Volatile and non volatile memory.		
	ii) Virtual and physical memory.		
b)	Write short note on :-	(8)	
	i) RD RAM		
	ii) DD RAM		
	OR		
a)	Explain the central processing Unit with the help of diagram. Also explain its need and applications? (8)		
b)	Write short notes on:	(8)	
	i) Different types of ROM		
	ii) Memory Latency and Memory seek time		
	 a) b) a) b) a) b) a) a) 	Draw and explain the block diagram of 8257 DMA controller? b) Draw and explain the block diagram of 8155 multipurpose programma device. How does it differ from 8255. Unit - IV a) Give a brief discussion on Instruction set of 8086 microprocessor? b) Explain Hardware and Software interrupts of 8086 microprocessor. OR a) Explain the memory addressing and memory segmentation for 80 Micro-processor? b) Explain the Architecture of INTEL 8086? Unit - V a) Explain the following types of memory- i) Volatile and non volatile memory. ii) Virtual and physical memory. b) Write short note on:- i) RD RAM ii) DD RAM OR Explain the central processing Unit with the help of diagram. Also explain need and applications? b) Write short notes on: i) Different types of ROM	

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