	210	210	210	210	210	210	21		
F	Regis	stration No :							
Tot	al Nu	Imber of Pages : 0	2				3.Tech. E5I102		
	210		Semester Regula			210	210		
		MIC	ROPROCESSOF	R AND MICRO					
				e : 3 Hours	AL .				
				Marks : 100					
				ODE : E387					
Ar	iswe	r Question No.1 (F	-		ny EIGHT from P	Part-II and any	TWO		
	210	210	210	om Part-III.	210	210	210		
		The fig	gures in the righ	t hand margin	indicate marks.				
				Part- I					
Q1		Short Answer Typ	•	,		(2 x 10)		
	a)	Mention three ways							
	b)	What are the schem							
	C)	What is the differen	ce between inter –	segment and in	tra – segment jump	210 210 210	210		
	210 d)	processor? 210		1.0	LIO	210	210		
	d) e)	List the various operating modes of the 8253 timer/counter. What is the function of the segment override prefix? Give two examples.							
	f)	How does port C of	-	•	ve two examples.				
	r) g)	What is the function			f the 80512				
	b)	What is the need fo							
	i)	Explain immediate a		with an example	è				
	2 j)0	Find the address to	•	•		cution2of the	21		
	27	instruction SJMP F							
				Part- II					
Q2		Focused-Short An	•••	•	•	•	(6 x 8)		
	a)	What is a micro	processor? Sketc	h and explain	the various pir	ns of 8085			
	b)	microprocessor.	to convert a pool		to uppooled DCD	number			
	<u>р</u>) с)	Write 8085 program	210 .		• 210	210	21(
	c) d)	Explain the timing diagram for: (i) opcode fetch cycle and (ii) I/O write cycle. Interface a 16KB × 8 EPROM memory chip and a 16KB × 8 RAM chip with the 8085							
	u)	using logic gates. D		/ 1					
	e)	With a neat diagra	•	•	vitches and four LI	EDs to 8085			
	-	using 8255 PPI. Give the necessary initialization instructions.							
	f)	Explain the initialization							
	g) 210	Write a program to					21		
	LIU	in the memory, starting at the offset address 1000H in the segment address 5000H. Store the result at the offset address 2000H in the same segment.							
	h)	Discuss 8086 instru			e segment.				
	i)	Write 8085 subrouti	•						
	j)	Describe the block	-	•					
	k)	Explain how data ca	•	• •	•	rates.			
	l)	Discuss 8051 addre		•					
	- /	210	210			210	210		

210	210	210	210	210	210	210	210	
	Part-IIILong Answer Type Questions (Answer Any TWO out of FOUR)Q3Explain the architecture of the 8086 with a neat function block diagram.							
210	Q4 ²¹⁰	What is meant by 'priority of the interrupts'? Draw and explain the interrupt structure of the 8085.						
	Q5	 Explain the operation of the following instructions in 8085. Also specify the number of T – states and name of the machine cycles involved in each instruction : a) ADD R, b) CPI 8-bit, c) JZ 16-bit₁₀ 210 210 210 210 210 						
210	210	d) CALL 16-bit	210	210	210	210	210	
	Q6	Describe in detail h processor.	ow the 8257 DMA	controller can	be interfaced w	ith the 8085	(16)	
210	210	210	210	210	210	210	210	
210	210	210	210	210	210	210	210	
210	210	210	210	210	210	210	210	
210	210	210	210	210	210	210	210	
210	210	210	210	210	210	210	210	