	210	210	210	210	210	210	210
F	Regis	stration No :					
Tota	l Nu	mber of Pages:02				РІ	B.Tech ET4I104
	210		ROPROCESS BRAI Tii Ma	ar / Back Exami OR & MICROCO NCH : ECE,ETC me : 3 Hours x Marks : 100 CODE : F691	ONTROLLER	210	210
Ans	wer	Question No.1 (Par		ompulsory, any	/ eight from Par	t-ll and any tw	vo from
	210	The fig	ures in the rig	Part-III. ht hand margin	indicate marks	210	210
Q1		Only Short Answer	Type Questions	Part- I s (Answer All-10))		(2 x 10)
	a) b) c)	Why a latch is used f Differentiate between What is meant by Wa	n RISC architectu ait State?	ure and CISC arch	nitecture.		
	d) e) f) g) h) i)	Is there any advantage Write the significance Distinguish between Give the difference b Illustrate the need an Why SJMP instructio State the features of	e of assembler d scanned keyboa etween maskabl id role of watch o n is used in the p	irectives. ²¹⁰ Ird code from stro e and non-maska log timer in 8051. blace of HLT in 80	bed keyboard code ble interrupts.	210	210
Q2	210 a) b)	Part- II Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) "8086 does not directly provide all the signals that are required to control the memory, I/O and interrupt interfaces. Discuss the solution to this issue. Write an 8086 assembly language program to sort the given 10 numbers from memory location 2000H in the ascending order.					
	c) d)	Explain the interrupt table. Illustrate the memor	structure of an 8	086 microproces		Ū	
	d) 210 e) f)	using timing diagram. ²¹⁰ ²					210
	g) h)	Design and explain, circuit and multiplexo Describehow 8279	or, using appropr	iate schematic dia	igram.		
	격)) j)	system? Draw the block diag transfer between 827 Find the values of SF	9 and CPU.				210
	J) 210	MOV SP,#4F MOV R1,#30 MOV R2,#40 PUSH 1 PUSH 2 MOV R0,#05 ADD A,R0 POP 2 POP 1	≈H DH DH 210	210	210	210	210

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		k)	What is the significat				, v		
		I)	create a square wave of 50 % duty cycle on bit 0 of port 1.(Use timer 0 , mode 1). Explain with block diagram, how to access external memory device in an 8051 system						
210 Q3		Part-III Only Long Answer Type Questions (Answer Any Two out of Four) Draw the interfacing diagram for 8086 based systemfor minimum mode and maximum mode with the following specification16 KB RAM -8 KB EPROM -8255 PPI in I/O address space also show the required latches, buffers and decoder.							
	Q4		Discuss in detail the v banks and associated				8086 memory	(16)	
	Q5		Sketch the block diagr	()	•			(16)	
210	Q6	210	Describe the various r	nodes of operatio	n of Timer/counter	210 ers in 8051.	210	(16) ²¹⁰	

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