					1	1	1	1				1	1		
Reg	istra	ition no:													
210		210			210			210			210)		210	
Tota	ıl Nu	ımber of Paç	ges: 2	2											B.Tech
															PCEL4303
		6 th S	eme	ster	Reg	gula	r / B	ack	Exa	min	atio	n 20	15-10	6	
MICROPROCESSOR AND MICROCONTROLLER															
210	BRANCH: EEE 210 210 Time: 3 Hours 210							210							
210		210			210			arks			210			210	
								E: W	_						
A	Answer Question No.1 which is compulsory and any five from the rest.														
		The fig	gure	s in	the	righ	it ha	nd r	narç	gin i	ndic	ate	mark	KS.	
Q1		Answer the	follo	wine	a que	estio	ns:								(2 x 10)
210	a)	Write the tw	o diff	erend	ces b	etwe	en 80					•	essor.	210	,
	b)	What is the											. ((!		
	c)	What is the 8051 microo				weer	i SJI	/IP, <i>P</i>	JMP	and	LJIV	IP Ins	structi	on in	
	d)	What is the		_		veen	mini	mum	and	max	imun	n mod	de of	8086	
	,	microproces							G G.						
	,	What is the				•					•		r?		
210	· •	What are the	•							•				210	
	g)	What is the microcontro		ıress	ing r	noae	OT	tne i	ollow	ing i	nstru	iction	S OT	8051	
		i) MOV	_). A											
		ii) MOV		•	DPT	R									
	h)	Which mode						bidire	ection	al m	ode	and \	Which	port	
	i)	can be confi What is the	_					925/	l timo	\r2					
210	j)	Explain abo									micro	oproc	essor	210	
		·													
Q2	a)	Explain abo	ut the	inte	rrupt	instr	uctio	ns of	8085	micr	opro	cess	or.		(5)
	b)	Explain abo	out th	ne 80	085 1	lags	with	the	suita	able	struc	ture	of its	flag	(5)
		register.													
Q3 ₀	a)	Draw and microproces	-	ain t	he∘ ı	minim	num	mod	e re	ad I	DUS 210	cycle	of	8086	(5)

b) Explain about the PSW register of 8051 microcontroller. Write the

Interface two 4KX8 EPROMS and two 4k X 8 RAMs chips with 8086

instruction to select the register bank3 0f 8051 microcontroller.

microprocessor. Select the suitable memory maps.

Q4

(5)

(10)

Q5°	a)	What is mode-1 of 8255 PPI? Write the mode-1 control word format. What is the control word to configure Port-A input in mode-1 and Port-B output in mode-0 I/O mode?	(5)
	b)	With suitable block diagram explain about the 8251 USART.	(5)
Q6	a)	Write an assembly language program to add a series of decimal bytes using 8086 microprocessor.	(5)
	b)	Explain about the pins and signals of 80386 microprocessor.	(5)
Q7	a)	With suitable diagram explain about the 8086 microprocessor architecture.	(5)
210	b)	Write the addressing mode and find the physical address of the following instructions of 8086 microprocessor. Assume the content of registers are : $ CS=1000H, DS=1200H, ES=1501H, SS=3408H, SI=2300H, DI=0900H, BX=0FFFH and BP=1A00H. $ I) MOV [SI], AL II) ADD CX, [BP+DI] III) MOV [2456H], BP IV) SCASB 210 210 210 210 V) MOV [DI+08H], SI	(5)
Q8	a) b) c) d)	Write short notes on any two: DMAC 8051 interrupt 8086 register organization 80386 paging technique	(5 x 2)