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SUBJECT CODE NO:- H-207 FACULTY OF SCIENCE AND TECHNOLOGY S.E. (CSE/IT) Microprocessor & Computer Organization

Microprocessor & Computer Organization (REVISED)

[Time:	Three Hou	rs]	[Max. Marks	:: 80
N.B		Please check whether you have got the right question paper. 1) Q.1 & 6 are compulsory. 2) Solve <u>any two</u> from remaining in each section. 3) Assume suitable data with justification. Section A		300
Q.1	Solve an	ny five		10
	i) ii) iii) iv) v) vi) vii)	What is pipelined architecture? Identify which segment registers are used in MOVSB instruction? How 20 bit physical address is generated in 8086? Define Macro with example. What is use of \overline{BHE} / S7 pin in 8086. What is address bus in 8086? Enlist any four types of main memory.		
Q.2	ez N	for the following instructions draw the read and write cycles. Also explain xecutes this instruction. MOV AX, [BX] MOV [BP], CX	how 8086	10
	b) E	xplain the flags of 8086 with effect of sample instruction on them?		05
Q.3	a) W	Vrite interactive program to convert two digit hex number into BCD numb	er?	08
		Oraw the pin diagram of 8088 microprocessor? And explain the difference 086 and 8088 microprocessor.	between	07
Q.4	a) W	What is TSR? Write a program to demonstrate the TSR?		05
	b) E	xplain the role of IVT in executing ISR?		05
	c) D	Draw and explain timing diagram of INTR instruction.		05

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Q.5	Write short notes (any three)				
	i)ii)iii)iv)v)vi)	Five services of Int 21 h w PSP Near and Far procedure with Directives Addressing modes of 8086 Memory segmentation	ith example		
			Section B		
Q.6	Solve any	five		10	
	2) Er 3) W 4) Er 5) W 6) W	efine the term computer archalist functional components that is Latency and throughpulist any two differences betwhat is COM port? hat is control memory? hat is CISC?	of computer. ut?		
Q.7	a) Ex	splain classification of comp	outers in detail?	08	
	b) Ex	plain different parameters u	used to measure the performance of computer?	07	
Q.8	a) Ex	xplain behavior of CPU oper	ration using flow chart?	07	
	b) Ex	plain instruction cycle in de	etail?	04	
	c) De	escribe hardwired control un	it design in detail?	04	
Q.9	a) W	hat is parallel port? Explain	printer port in detail?	05	
	b) Ex	eplain PCI and SCSI bus in o	letail?	05	
	c) Ex	splain I/O interface with suit	able example.	05	
Q.10	Write short notes (Any three)			15	
	2) Ou 3) Da 4) V ^t	emory subsystem at the part of			