SEAT No.:	
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P1021

[4457]-215

[Total No. of Pages : 2

S.E. (Computer Engineering) MICROPROCESSOR ARCHITECTURE (210245) (2012 Course) (Semester - I)

		Hours] [Max. Marks	s:50	
		Answer any 4 questions 1 or 2, 3 or 4, 5 or 6, 7 or 8.		
		Neat diagrams must be drawn wherever necessary.		
•	<i>))</i>	Figures to the right indicate full marks.		
Q1)	a)	Define microprocessor. Give some features of 8086 microprocessor	r.[3]	
	b)	Explain Memory organization and segmentation in 80386DX.	[6]	
	c)	What are the different types of descriptors?	[3]	
		OR		
Q2)	a)	Enlist the difference between 8086 and 80386.	[3]	
	b)	Draw the functional block diagram of 80386DX and explain the n functional Units.	nain [6]	
	c)	What is TSS descriptor?	[3]	
Q3)	a)	What are the characteristics of address pipelining in 80386DX?	[4]	
	b)	Draw the timing diagram for write cycle with pipelined address.	[5]	
	c)	What is the use of bit test and modify instructions.	[3]	
OR				
Q4)	a)	How IMUL is different from MUL?	[3]	
	b)	Draw the timing diagram for read cycle with pipelined address.	[5]	
	c)	Compare procedure and macro in assembly language programming	. [4]	

Q 5)	a)	What are the advantages of multicore designing?	[3]
	b)	What are the three common configuration that support multiprocess Explain.	sing? [6]
	c)	What is single instruction multiple Data model for parallel programming	g? [4]
		OR	
Q6)	a)	Define Chip Multiprocessors (CMPs)	[3]
	b)	What is Front side bus Back side bus BSB and I/O bus?	[6]
	c)	What is multiprogramming and multiprocessor?	[4]
Q7)	a)	What are the differences between IA-32 Basic Execution environment?	ment
	b)	Draw and explain the block diagram of 64 bit architecture.	[6]
	c)	Explain virtualization technology.	[4]
		OR	
Q8)	a)	List features of SSE.	[3]
	b)	Describe the Intel Microarchitecture code name Nehalem.	[6]
	c)	What are the advantages and disadvantages of Hyper threading.	[4]

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