Total No. of Questions—8]

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S.E. (Computer) (Second Semester) EXAMINATION, 2019

MICROPROCESSOR						
		(2015 PATTERN)				
Time: 2 Hours Maximum Marks: 50						
Instructions to the canadates:						
i.	Ansv	ver Question No. 1 OR 2, 3 OR 4, 5 OR 6 and 7 OR 8.				
ii.	Neat	diagram must be drawn whenever necessary.				
iii.	Figu	res to the right indicate full marks.				
iv.	Assu	wer Question No. 1 OR 2, 3 OR 4, 5 OR 6 and 7 OR 8. diagram must be drawn whenever necessary. res to the right indicate full marks. The suitable data, if necessary. List fundamental data types of 80386				
1)	a)	List fundamental data types of 80386	[02]			
	b)	Describe following different Plags defined in 80386 Processor -	[04]			
		a) DF b) VM c NT d) RF	ro 60 3			
	c)	Explain shift and rotate instructions of 80386.	[06]			
		OR	0			
,2)	a)	Draw and explain the format of a selector.	, V [02]			
	b)	List and explain control registers of 80386.	[04]			
	c)	With help of diagram explain the 80386 mechanism to translate logical address to linear address.	[06]			
3)	a)	List aspects of protection related to pages.	[02]			
	b)	With appropriate diagram explain the concept of privilege levels in 80386.	[04]			
	c)	How Call gate descriptor is used to locate the procedure in another code segment? How protection is provided? OR	[06]			
4)	a)	Define "Faults".	[02]			
	b)	Explain "How 80386 indentifies interrupts?"	[04]			
	c)	By which two ways, 80386 allows input/output to be performed? Explain each in details.	[06]			
		•)	T.O.			

5)	a)	Explain features of "Virtual 8086 mode".	[03]
	b)	Explain 80386 processor state after RESET.	[04]
	c) ,	What all initializations required to start processor in protected mode after reset?	[06]
		OR OR	
6)	a)	Write a short note on "Switching to protected mode".	[02]
	b)	List the features of 80386 architecture that supports debugging.	[05]
	c)	With the necessary diagrams explain entering and leaving V86 mode?	[06]
7)	a)	Draw and explain read cycle with non-pipelined address timing.	[08]
	b)	Which data types are supported by 80387?	[05]
		OR	
8)	a)	Draw and explain write cycle with pipelined address timing.	[08]
	b)	Draw and explain write cycle with pipelined address timing. The 80387 instructions are divided in to which functional groups? Explain with one example of each.	[05]
		one example of each.	
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