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Total No. of Questions: 8]

SEAT No. :

P4832

[Total No. of Pages: 3

[5152]-569

S.E. (Computer) (Semester - IV) MICROPROCESSOR (2015 Pattern)

Time: 2 H	Tours] [Maximum Marks : 50)		
Instructions to the candidates:				
	1) Answer Question No.1 or 2, 3 or 4, 5 or 6 and 7 or 8.			
	2) Neat diagram must be drawn wherever necessary.			
1	3) Figures to the right indicate full marks.			
	4) Assume suitable data, if necessary.			
Q1) a)	What is the use of following instructions? [2]			
1.	i) Wait			
	ii) Lock			
b)	Explain segment address translation in detail. [4]]		
c)	Draw and explain segment descriptor. [6			
-,	OR			
Q2) a)	What is the use of Direction Flag? [2]			
b)	Draw and explain the system address and system segment registers. [4	и		
c)	Explain the following instructions, mention flags affected:	A		
•)	i) CWD	-		
	ii) BT			
	iii) LAHF			
Q3) a)	List the registers and data structures that are used in multitasking. [2]	2]		
b)	Differentiate between memory mapped I/O and I/O mapped I/O. [4	4]		
c)	Explain what happens when an interrupt calls a procedure as an interrupt	pt		
	handler.	6]		
	OR O			
Q4) a)	Write the two mechanisms that provide protection for I/O functions.[2	2]		

		And the second s	
	b)	What is IDT and how to locate IDT?	[4]
	`	To 1: 1 1:00 and Aborts	[6]
	c)	Explain the different exception conditions-Faults, Traps and Aborts.	[O]
Q5)	a)	Write short note on "Task Switch Breakpoint".	[3]
20)	,		
	b)	Write short note on "Protection within a V86 task".	[4]
	T		
	c)	Explain various debugging features of 80386.	[6]
	1		
		OR	
06)	a)	Write short note on "General Detect Fault".	[3]
Q6)	aj	White Short note on "General Detect Funt".	1-1
	b) ,	Which bit of EFLAGs indicates V86 mode? Explain, how hardware	and
		software cooperate with each other to emulate V86 mode?	[4]
	. John		
	c)	Explain, how test registers are used in testing TLB?	[6]
			, (
Q7)	a)	Explain following signals	[3]
21)	<i>(</i> a)	Explain following signals	
		i) ADS#	Ş
			*
		ii) READY#	
		iii) NA#	
	b)	Write note on CLK2 and internal processor clock.	[4]
	U)	Witte flote off CLIKZ and Internal processor close.	F.1
	c)	Which data types are supported by 803872	[6]
	,		
		OR OR	

...g signals

through BE3#.

Explain following signals

PEREQ

BIFF **Q8**) a) [3] [4] b) Draw read cycle with pipelined address timing. [6]