## P4832

[51521-569

## S.E. (Computer) (Semester - IV)

	MICROPROCESSOR	
	(2015 Pattern)	
<i>m</i> : 2	20,00.	01 : 11 1 50
Time: 2	ons to the candidates:	[Maximum Marks: 50
Instruction	1) Answer Question No.1 or 2, 3 or 4, 5 or 6 and	d 7or 8
	2) Neat diagram must be drawn wherever nece	
	3) Figures to the right indicate full marks.	, , , o
	4) Assume suitable data, if necessary.	67
	V	7
	3.	5
<b>Q1)</b> a)	What is the use of following instructions?	[2]
	i) Wait	
~	ii) Lock	
b)	Explain segment address translation in detail.	[4]
c)	Draw and explain segment descriptor.	[6]
	OR	
<b>Q2</b> ) a)	What is the use of Direction Flag?	[2]
b)	Draw and explain the system address and syste	m segment registers. [4]
c)	Explain the following instructions, mention flag	s affected: [6]
	i) CWD	8
	ii) BT	5
	iii) LAHF	1 00
	'A.	S. S.
Q3) a)	List the registers and data structures that are use	d in multitasking. [2]
b)	Differentiate between memory mapped I/O and	
c)	Explain what happens when an interrupt calls a	U () 0.0
c)	handler.	[6]
	OR OR	101
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20.		
<b>Q4)</b> a)	Write the two mechanisms that provide protect	ion for I/O functions.[2]
	2.2	
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	b)	What is IDT and how to locate ID1?	[4]
	c)	Explain the different exception conditions-Faults, Traps and Abort	s.[6]
		97	
Q5)	a)	Write short note on "Task Switch Breakpoint".	[3]
	b)	Write short note on "Protection within a V86 task".	[4]
	c)	Explain various debugging features of 80386.	[6]
		OR SE	
Q6)	a)	Write short note on "General Detect Fault".	[3]
	b)	Which bit of EFLAGs indicates V86 mode? Explain, how hardware	
		software cooperate with each other to emulate V86 mode?	[4]
	c)	Explain, how test registers are used in testing TLB?	[6]
Q7)	a)	Explain following signals	[3]
		i) ADS#	3
		ii) READY#	
		iii) NA#	
	b)	Write note on CLK2 and internal processor clock.	[4]
	c)	Which data types are supported by 80387?	[6]
		Which data types are supported by 803872  OR	
[51	<b>-</b> 21	-2- Ph. 2	
[51;	52]-:	509	

