Total No.	of Questions : 8] SEAT No. :				
P4832	[Total No. of Pages :	3			
	[5152]-569				
S.E. (Computer) (Semester - IV)					
MICROPROCESSOR					
(2015 Pattern)					
<i>Time</i> : 2 <i>H</i>		50			
Instructions to the candidates:					
	 Answer Question No.1 or 2, 3 or 4, 5 or 6 and 7 or 8. Neat diagram must be drawn wherever necessary. 				
	3) Figures to the right indicate full marks.				
	4) Assume suitable data, if necessary.				
Q1) a)		2]			
	i) Wait				
	ii) Lock				
b)		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.				
c)	Explain the following instructions, mention flags affected:	6]			
	i) CWD				
	ii) BT				
	i) CWD ii) BT iii) LAHF				

- Q3) a) List the registers and data structures that are used in multitasking. [2]
 - b) Differentiate between memory mapped I/O and I/O mapped I/O. [4]
 - c) Explain what happens when an interrupt calls a procedure as an interrupt handler. [6]

OK

Q4) a) Write the two mechanisms that provide protection for I/O functions.[2]

	b)	What is IDT and how to locate IDT?	[4]
	c)	Explain the different exception conditions-Faults, Traps and Aborts.	[6]
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	
Q6)	a)	Write short note on "General Detect Fault".	[3]
	b)	Which bit of EFLAGs indicates V86 mode? Explain, how hardware a software cooperate with each other to emulate V86 mode?	and [4]
	c)	Explain, how test registers are used in testing TLB?	[6]
	,		(~
Q7)	a)	Explain following signals	[3]
		i) ADS#	
		ii) READY#	
		ii) READY# iii) NA# Write note on CLK2 and internal processor clock	
	b)	Write note on CLK2 and internal processor clock.	[4]
	c)	Which data types are supported by 80387?	[6]
		OR	

Explain following signals **Q8)** a) [3] Explain following signals

i) PEREO b) ii) Draw read cycle with pipelined address timing. **[6]** c)

-3-

[5152]-569