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Seat		>
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## S.E. (Computer) (Second Semester) EXAMINATION, 2019 MICROPROCESSOR (2015 PATTERN)

Time: 2 Hours Maximum Marks: 50

## Instructions to the candidates:

- i. Answer Question No. 1 OR 2, 3 OR 4, 5 OR 6 and 7 OR 8.
- ii. Neat diagram must be drawn whenever necessary.
- iii. Figures to the right indicate full marks.
- iv. Assume suitable data, if necessary.

details.

1)	aj	List fundamental data types of 80386.	[02]
	b)	Describe following different flags defined in 80386 Processor - a) DF b) VM c) NT d) RF	[04]
	c)	Explain shift and rotate instructions of 80386.  OR	[06]
2)	a)	Draw and explain the format of a selector.	[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]

By which two ways, 80386 allows input/output to be performed? Explain each in

P.T.O.

[06]

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?  OR	[06]
6)	a)	Write a short note on "Switching to protected mode".	[02]
ν,	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]
<b>6</b> )		OR OR	[08]
8)	a) b)	Draw and explain write cycle with pipelined address timing.  The 80387 instructions are divided in to which functional groups? Explain with	[06]
		one example of each.	eg

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