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Seat	
No.	8

[5352]-569

	ļ	S.E. (Computer) (II Sem.) Examination, 2016			
		MICROPROCESSOR			
		(2015 COURSE)			
Time	: 1	Two Hours Maximum Marks:	50		
N.B.	:	(i) Answer Q. No. 1 or Q. No. 2, Q. No. 3 or Q. N	No.		
		4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8	).		
		(ii) Neat diagram must be drawn whenever necessary.			
		(iii) Figures to the right indicate full marks.			
		(iv) Assume suitable data, if necessary.			
1.	. (a) Explain immediate and register addressing mode with				
		example.	[2]		
	( <i>b</i> )	Draw and explain the flag register of 80386.	[4]		
	( <i>c</i> )	Draw and explain segment descriptor.	[6]		
		Or	)		
2.	(a)	What is the use of Interrupt Flag?	[2]		
	(b) Explain paging machanism.				
	( <i>c</i> )	Draw and explain the 80386 address translation machanis	sm		
		considering PG bit in CR0 in set.	[6]		
3.	(a)	What is CPL and RPL?	[2]		
	(1)	Empleio Internet or O and O	г 4 Т		

Explain Interrupt no. 0 and 4. (b) $\lfloor 4 \rfloor$ 

Explain the role of Task Register in multitasking and the (*c*) instructions used to modify and read TR. [6]

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<b>4.</b> (	a) List five aspects of protection	in the 80386.	2]
(	b) Write a short note on 'I/O po	ermission Bit Map'. [3	3]
(	c) Draw and explain TSS.	[7	7]
	20, 20,		
<b>5.</b> (	a) Write short note on Virtual 8	8086 Mode. [3	3]
(	b) Explain software initializations	required for protected mode.[4	[]
(	c) Draw and explain structure of	f the TLB. $\bigcirc$ [6	3]
	Or		
<b>6.</b> (	a) What are the contents of various	us registers of processor 8038	6
	after reset ?	[3	3]
(	b) Explain entering and leaving	V86 mode [4	[]
(	c) Draw and explain debug regis	ters of the 80386. [6	3]
		7) 20	
<b>7.</b> (	a) Explain the following signals:	[3	3]
	( <i>i</i> ) W/R##		
	( <i>ii</i> ) D/C#		
	(iii) M/IO#		
(	b) Explain any $four$ $80387$ consta	nt instructions. [4	<b>[</b> ]
(	c) Draw read cycle with non-pipe	elined address timing. [6	3]
	Or	8	
8. (	a) Explain the following signals :	, i [3	3]
	(ii) NMI#	2) %	
	(iii) RESET#	20,00	
	b) Draw and explain 80387 regis	ter stack. [4	[]
	c) Explain any six 80387 data ti	ransfer instructions. [6	3]
		6.	
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[0002]-	<u>4</u>	•	