Total	l No. o	of Questions : 8] SEAT No. :				
PB	363	1 [6261]-38 [Total No. of Pages :2				
	S.E. (Computer)					
MICROPROCESSOR						
T:	(2019 Pattern) (Semester- IV) (210254)					
		Hours] [Max. Marks: 70 is to the candidates:				
IIISII	1)	Attempt Q.1 or Q,2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.				
	2)	Neat diagrams must be drawn wherever necessary.				
	<i>3</i>)	Figures to the right indicate full marks.				
	<i>4</i>)	Assune suitable data if necessary.				
		6.7				
Q 1)	a)	Draw & Explain the general descriptor format available in various				
21)	u)	descriptor tables. [6]				
	b) \	Explain the use of following Instructions in detail: [6]				
		i) LGDT				
		ii) SGDT				
		iii) SIDT				
	c)	Explain the segment Translation process of 80386. [6]				
00)	`	QR				
Q2)	a)	With the necessary Diagram, Explain the complete Address Translation process in 80386.				
	b)	process in 80386. [6] Enlist various types of system & non-system descriptors in 80386. Explain				
	0)	their use in brief. [6]				
	c)	Draw & Explain the General Selector Format. [6]				
Q 3)	a)	Explain various Aspects of Protection Mechanism of Paging unit. [6]				
	b)	What is CPL, EPL, IOPL? Explain in Brief. [6]				
	c)	Explain the need of Protection Mechanism in 80386. [5]				
0.4	`	OR OR				
<i>Q4</i>)	a)	Explain how control transfer Instructions are executed using the call gate in the system. [6]				
	b)	List & Explain various Privilege Instructions. [6]				
	c)	Elaborate the concept of combining segment Protection & Page level				
	,	protection in 80386. [5]				
		P.T.O.				

Q 5)	a)	Explain the structure of a V86 Task in detail. How is protection provide within the V86 task?	led [6]
	b)	Draw & Explain the Task state segment of 80386.	[6]
	c)	With the necessary diagram, Explain entering & leaving the virtual moof 80386. OR	ode [6]
Q6)	a)	Explain the TSS descriptor & its role in multitasking.	[6]
	b)	List & Explain various features of virtual 8086 Mode.	[6]
	c)	Define Task switching & Explain the steps involved in task switch operation.	ing [6]
Q7)	a)	With the help of neat diagram Explain the Process of handling Interruin Protected mode.	pts [6]
	b) \	Explain the different types of exceptions in 80386 with suitable example.	[6]
	c)	With the help of neat diagram explain the architecture of typi Microcontroller.	cal [5]
Q 8)	a)	Explain various Descriptors present in IDT of 80386.	[6]
	b)	Explain the following exceptions in brief.	[6]
		i) Divide Error	
		ii) Invalid op code	
		iii) Overflow	
	c)	Explain various features of the 8051 Microcontroller	[5]
		i) Divide Error ii) Invalid op code iii) Overflow Explain various features of the 8051 Microcontroller	

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