Total No. of Questions: 8]		of Questions : 8] SEAT No. :		
PB3631		1 [6261]-38 [Total No. of Pages :2		
		S.E. (Computer)		
		MICROPROCESSOR		
(2019 Pattern) (Semester- IV) (210254)				
Time	: 21/2	Hours] [Max. Marks : 70		
Instructions to the candidates:				
	<i>1</i>)	Attempt Q.1 or Q,2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.		
	<i>3</i>)	Figures to the right indicate full marks.		
	<i>4</i>)	Assurne suitable data if necessary.		
		6.1		
Q 1)	a)	Draw & Explain the general descriptor format available in various		
£-/	,	descriptor tables. [6]		
	b) N	Explain the use of following Instructions in detail: [6]		
	\	i) LGDT		
		ii) SGDT		
		iii) SIDT		
	c)	Explain the segment Translation process of 80386. [6]		
		O'R		
Q2)	a)	With the necessary Diagram, Explain the complete Address Translation		
	1 \	process in 80386.		
	b)	Enlist various types of system & non-system descriptors in 80386. Explain their use in brief. [6]		
	c)	Draw & Explain the General Selector Format. [6]		
	C)	Brawte Explain the General Selector Format.		
<i>Q3</i>)	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 30386. [5]		
4	U	OR ON		
Q 4)	a)	Explain how control transfer Instructions are executed using the call gate		
	1	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.		
		Α		

Q5) a)	Explain the structure of a V86 Task in detail. How is protection prov within the V86 task?	ided [6]
b)	Draw & Explain the Task state segment of 80386.	[6]
c)	With the necessary diagram, Explain entering & leaving the virtual mof 80386. OR	node [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 switching operation.	hing [6]
Q7) a)	With the help of neat diagram Explain the Process of handling Interr	_
L)	in Protected mode.	[6]
b) ,	Explain the different types of exceptions in 80386 with suitable example.	
c)	With the help of neat diagram explain the architecture of type Microcontroller. OR	[5]
Q8) 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	5
	iii) Overflow	
c)	Explain various features of the 8051 Microcontroller	[5]
500	i) Divide Error ii) Invalid op code iii) Overflow Explain various features of the 8051 Microcontroller	
[6261]-38		