Total	l No.	o. of Questions : 8] SEAT No. :			
P15	534	Total No. of Pages	: 2		
		[6002] 163			
S.E. (Computer)					
MICROPROCESSOR					
(2019 Pattern) (Semester - IV) (210254)					
Time	: 24	[Max. Marks :	70		
Instr	uctio	ons to the candidates:			
	1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.			
	2)	Figures to the right indicate full marks.			
Q1)	a)	Enlist various types of system and non - system descriptors in the 8038 Explain their use in brief.	86. [6]		
	b)		[6]		
	,	i) LGDT			
		ii) LIDT			
		iii) SIDT	000		
	c)	With the necessary flowchart, explain the complete address translati	δ'n		
	ĺ		[6]		
		OR			
Q 2)	a)	Explain the page translation process in 80386.	[6]		
	b)	Draw and explain the general descriptor format available in various			
	\		[6]		
	c)	Differentiate and explain GDTR, LDTR, and IDTR	[6]		
0.0	`				
Q3)	a)		[6]		
	b)		[6]		
	c)	9	[5]		
		OR OR			
		\triangleright	<i>I.O.</i>		

Q4)	a)	Explain how control transfer instructions are executed using the call gate in the system? [6]			
	b)	List and explain various Privilege Instructions. [6]			
	c)	Elaborate on the concept of combining segment protection and page level protection in 80386. [5]			
Q5)	a)	Explain the structure of a V86 Task in detail. How is protection provided within the V86 task? [6]			
	b)	Draw and explain the Task State Segment of 80386. [6]			
	c)	With the necessary diagram, explain entering and leaving the virtual mode of 80386. OR OR			
Q6)	a)	Explain the TSS descriptor and its role in multitasking. [6]			
	b)	List and explain various features of virtual 8086 mode. [6]			
	c)	Define Task Switching and explain the steps involved in task switching operation? [6]			
Q7)	a)	How interrupts are handled in protected mode? Explain with the help of a neat diagram. [6]			
	b)	Elaborate about enabling and disabling interrupts in 80386. [6]			
	c)	List and elaborate on different applications of microcontrollers. OR			
Q8)	a)	OR Explain the following exceptions in brief. i) Divide error ii) Invalid Opcode iii) Overflow			
	b)	How interrupts are handled in protection mode. Explain with the help of a neat diagram. [6]			
	c)	Explain various features of the 8051 Microcontroller. [5]			
[6002]-163					