Total No. of Questions : 4]		SEAT No. :
PE49		[Total No. of Pages :
	[6579] 351	

[6579] 351 T.E. (E & TC) /Electronics(VLSI Design and Technology)/(Advanced Communication Technology) MICROCONTROLLERS

(2019 Pattern) (Semester - I) (304184) (Insem)

Time: 1		ks:30
	ons to the candidates: Answer Q1 or Q2 and Q3 or Q4.	
1) 2)	Neat diagrams must be drawn wherever necessary.	
<i>3</i>)	Figures to the right indicate full marks.	
<i>4</i>)	Use of Calculator is allowed.	
5)	Assume suitable data, if necesary.	
,	9°	
Q1) a)	Draw and explain internal memory organization of 8051.	[5]
b)	Explain the port 1 structure of 805 in detail	[5]
c)	State salient features of 8051 microcontroller.	[5]
	OR OR	
Q2) a)	Compare Microprocessor and Microcontroller	[5]
b)	Explain IE register in detail.	[5]
c)	Enlist various modes of operation of Timer & Explain in details.	[5]
C)	Emist various modes of operation of Timer & Exprain in details.	
02)		
Q3) a)	Draw an interfacing diagram for Stepper motor with 8051. Expla	in the
	need of ULN 2003.	(7] چ
b)	Describe interfacing of ADC 0808/0809 to 8051 microcontroller	t with
	necessary diagram	[8]
	Q', O'.	
	OR OF	
Q4) a)	What are the different types of 7 segment display? Write an embed	ded C
<u> </u>	program to display 0 to 9 with a delay of 500ms.	[7]
b)	Write an embedded C program to blink alternate LEDs connec	
(0)		
	PORT 1 of 8051 microcontroller (blink LEDs after 1 sec).	[8]
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