Total No. of Q P9007		of Questions : 6] SEAT No. :	٦
		Oct-22/TE/Insem-537 [Total No. of Pages :	1
		T.E. (Electrical)	
AD	VA]	NCED MICROCONTROLLER AND EMBEDDED SYSTEM	I
		(2019 Pattern) (Semester - I) (303145 A)(Elective - I)	
Time	e : 1 l	Hour] [Max. Marks : 30	9
Insti		ons to the candidates:	
	1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.	
	<i>2</i>) <i>3</i>)	Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks.	
	<i>4</i>)	Use of Calculator is allowed.	
	,	Assume Suitable data if necessary.	
Q 1)	a)	Explain in brief the Program and data memory organization in PIC 18.[5	[]
~ .	b)	Compare CISC & RISC architectures. [5	
	,	OR S	_
<i>Q</i> 2)	a) '	Explain C data types in brief. [5	5]
2-/	b)	Explain status register in detail. [5	_
	-,		1
Q3)	a)	Explain the SFRs related to I/O ports of PIC 18F458 microcontroller.[5	(1
Q_{J}	b)	Explain Header and source file in Embedded C Program. Also explain	
	U)	pre-processor directives with examples. [5]	
		OR	Ù
Q4)	a)	6.) []
Q4)	b) (Explain various times and also explain T0CON Register. [5]	1
	U)	Explain various times and also explain 10001 Register.	'J
05)		White DIC19 program to blink LEDs someouted to Both C SC DIC19 IS	' 1
Q 5)		Write PIC18 program to blink LEDs connected to Port C of PIC18.[5	
	b)	Write a C Program to turn bit 5 of Port B on and off 50,000 times. [5	۱,
		OR	
Q6)	a)	Write a C18 program to toggle only PORTB.4 continuously every 50msec	
		Use Timer0, 16 bit mode, 1:4 prescalar to create delay. Assume XTAL	
		10 MHz. [5	,]
	b)	Write a C18 program to toggle all bits of port B continuously. [5]	[]

