INIST/VI/App- of Microntholler-I INST 28/25/U

QP Code: 5082

						(3 Hours)		[Total Marks: 80		
			N.B:	(1)	Question No.	l is compulsory. Atte	empt any	three out of		
					remaining five	questions.				
				(2)	All questions	carry equal marks.				
				(3)	Assume suitab	ole data if necessary.				
	1.	Ans	wer fo	llow	ing in brief :				20	
	(a) Write program to configure PORTA, PORTB as input; PORTC, PORTD as output port for PIC18.							as input pert and		
	(b) Interface an LED to pin RB0 of PIC18. Write instructions to LED at regular interval continuously.							structions to toggle		
			(c)	Exp	lain following F	PIC18 instructions.				
					(1) BTFSS		(2)	MOVFF		
			(d)			res of SPI protocol.				
			(e)		at is interrupt lat be reduced.	ency? What are the f	factors a	ffecting it? How it		
	2	(a)	Write	PIC	18 program to c	onvert BCD number	of ASC	II number	10	
		(a) Write PIC18 program to convert BCD number of ASCII number.(b) Assume that a switch is connected to pin R3O of PIC18. Write a program							10	
		(-)	get status of the switch and send it in Do oit of file register location 20H.							
	3.	(a)		rface four seven segment LEDS to PIC18, Write a program to display 4 on them.						
		(b)		ain ADC module of PIC 18. Write a program to get data from channel ADC and to display the result on PORTC and PORTD.						
	4.	(a)	count	that clock pulses are fed to pin TOCK1 pin. Write a program for ster 0 in 8 bit mode to count the pulses and display the state of TMROL ORTB.						
		(b)	Expl	ain v		C18 external hardw etail.	are int	errupts and SFRs	10	
	5.	(a)	What			g in RTOs? Explain	variou	s task scheduling	10	
		(b)	_			in brief. Write a pro	gram fo	r PIC18 to transfer		
		(0)		Explain PIC18 serial port in brief. Write a program for PIC18 to transfer be letter 'I' serially at 9600 band. Continuously. Assume XTAL = 10 MHZ.						
	6.	Wri	ce sho	rt not	tes on any two:				20	
			(a)			nbedded system				
			(b)	POI	RTB change Inte	errupt				
			(c)	CC	P Modules of PI	C18.				
jf	P-C	on.	1101	6-15	5					

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