Total No. of Questions : 8]		SEAT No. :
P3921	[4958]-1045	[Total No. of Pages : 2

[4958]-1045 T.E. (E & TC)

		(End-Sem) (Semester - I) (2012 Course) (304183)	
	ructi	[Max. Marks: fons to the candidates:	70
	1) 2) 3) 4) 5) 6)	Answer to the two sections should be written in separate answer books. Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 Q7 or Q8. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Use of Calculator is allowed. Assume suitable data, if necessary.	
Q1)	a)	Compare RISC and CISC microcontroller with Example.	[6]
	b)	Draw and explain the Flag structure of 8051 with bank 2 selection.	[6]
	c)	Explain in detail Data memory MAP of PIC18F with GPR and SFRS.	[8]
		OR	
Q2)	a)	Differentiate between RS232 and RS 485, Comment on serioumunication rate.	ial [6]
	b)	Draw and explain the interrupt structure of 8051 in detail.	[6]
	c)	Draw and explain the PIC18F architecture in detail.	[8]
Q3)	a)	Write a program for 1KHz, 10% duty cycle PWM waveform.	[8]
	b)	Draw an interfacing diagram for 4*4 matrix key board and display to Key pressed on LED write a code.	he [8]
		OR	
Q4)	a)	Draw and explain the interfacing of LCD with port D and port E PIC18XXXL micro controller without Busy flag. Write C code to displ'S.P.P.U Pune'.	
	b)	Explain function the port structure of PIC in detail.	[8]

P.T.O.

Q5)	a)	Explain the MSSP structure of PIC 18F in detail.	8
	b)	Compare the SPI and 12C protocol.	8]
		OR	
Q6)	a)	What are the features of RTC Draw an interfacing diagram to interfacing with PIC.	ce [8]
	b)	Draw an interfacing of temp Sensor to PIC using Serial ADC and indicate excess temp when exceed the set pont by LED.	ate [8]
Q7)	a)	Design a frequency counter for counting number of pulses and displ same on LCD. [1	-
	b)	Draw an interfacing diagram and write a algorithm for DC motor spe control using PIC.	ec [8]
		OR	
Q8)	a)	Design of DAS system for pressure monitoring system [use any suitable sensor]. [1	
	b)	State and explain with generalized Data acquisition system.	[8]

x x x