SEAT No.:	
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P3619

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[4858] - 1045

T.E. (E&TC) (Semester - I)

MICRO CONTROLLER AND APPLICATIONS

		(2012 Pattern) (End-Sem.)	
		arks:70	
Instr	ucti	ons to the candidates:	
	<i>1</i>)	Neat diagrams must be drawn wherever necessary.	
	<i>2</i>)	Figures to the right indicate full marks.	
	3)	Assume suitable data, if necessary.	
Q1)	a)	Compare RISC and CISC Processors.	[6]
	b)	Explain interrupt structure in 8051 microcontroller.	[6]
	c)	Explain instruction pipeline flow in picl8F***.	[8]
		OR	
	a)	Explain Criteria for choosing a microcontroller.	[6]
	b)	Explain Structure of internal memory organization of 8051.	[6]
	c)	Explain Data memory organization with details description of G and SFR in PIC 18F458.	PRs [8]
Q 3)	a)	Explain T1CON and T2CON Register in PIC18F***.	[8]
	b)	Explain Interrupt structure of PIC18F***.	[8]
		OR	
Q4)	a)	Draw and explain interfacing of 4*4 matrix key pad with Pic 18F microcontroller using interrupt. Write code in 'c'.	*** [8]
	b)	Explain PWM Generation with Example.	[8]
Q 5)	a)	Draw and explain interfacing of 12C based RTC with PIC18F ³ Write a code in C.	***. [10]
	b)	Compare SPI and I2C protocol.	[8]

Q6) a) Draw and Explain MSSP Structure of PIC18F**. [8]

b) Draw and explain interfacing of ADC for analog input 0-5V and write a C code. [10]

Q7) Design a DC Motor control using PWM.

[16]

OR

Q8) Design a Digital multimeter to display values on LCD Display. [16]

