Total No. of Questions : 6]	SEAT No. :
	(m - 13)

P5804 [Total No. of Pages : 2

T.E./Insem./Oct.-22 T.E. (E & TC) (Semester - I) MICROCONTROLLER AND APPLICATIONS (2012 Pattern)

Time	e : 1	Hour] [Max. Marks : 30
Instr	ructio	ns to the candidates :
	<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right side indicate full marks.
	<i>4)</i>	Use of Calculator is allowed.
	5)	Assume Suitable data if necessary.
Q1)	a)	Differentiate between Microprocessor and Micro controllers. [5]
	b)	Draw and explain the block schematic of Logic analyzer. [5] OR
Q2)	a)	Explain in detail RS 485 communication protocol. [5]
	b)	Explain role of microcontroller in Embedded system with example. [5]
Q3)	a)	State features of 8051 and draw the block diagram. [5]
	b)	Explain following instructions with operation, addressing mode, no. of cycles and time required to execute the following instructions i. DJNZ Rn,X, ii. MOVC A, @A+DPTR iii. DAA, [5]
		OR
Q4)	a)	Draw and explain in depth functional diagram of Timer/Counter o 8051. [5]
	b)	Write an ALP to transfer SPPU continuously at the baud rate of 9600 continuously. [5]

Q5) a)	Draw and explain the data memory organization of PIC 18.	
b)	Enlist and explain the factors used in selection of PIC 18.	[5]
OR		
Q6) a)	Explain with example functioning of ALU in PIC18.	[5]
b)	Explain the power down modes of PIC18.	[5]

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