## Paper / Subject Code: 36905 / MICROCONTROLLER AND ITS APPLICATION

3-Jun-19 66416 1T00816 - T.E.(ELECTRICAL)(Sem VI) (CBSGS) / 36905 - MICROCONTROLLER AND ITS APPLICATION

	[3 hrs] Total Marks:80	
Question no 1 is compulsory. Attempt any THREE from the remaining questions.		
Q. 1	Attempt ant FOUR questions.  a) Explain rotate instructions used in PIC18F microcontroller. b) Write the differences between interrupt and polling. c) Explain the working of Watch Dog timer of PIC18F d) Explain the pipelining feature in PIC microcontroller e) Explain the status register in pic18 Microcontroller	[5] [5] [5] [5] [5]
Q. 2	<ul><li>a) Explain the Table Read operation in PIC18f4520 microcontroller</li><li>b) Explain the structure of TMR0 and T0CON registers in PIC microcontroller</li></ul>	[10] [10]
Q. 3	<ul><li>a) What is mean by addressing mode and hence explain different addressing mode in pic18f458 microcontroller.</li><li>b) Draw the IO port structure in PIC18 microcontroller and explain the registers associated with them.</li></ul>	[10]
Q. 4	<ul><li>a) Explain the concept of Global Interrupt Enable (GIE) and Peripheral Interrup (PEIE)</li><li>b) Explain the different registers of PIC18F associated with serial communication</li></ul>	[10]
Q. 5	<ul><li>a) Explain the CCP (Compare, Capture, PWM) module in PIC18F4520 microco in detail.</li><li>b) Which are the different instruction formats used in PIC18f microcontroller.</li></ul>	ntroller [10] [10]
Q. 6	Write short notes on: a) ADC module and associated registers with ADC b) DC Motor interfacing with PIC18f microcontroller.	[10] [10]
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