EECE.3170: Microprocessor Systems Design I

Spring 2016

Homework 6

Due 1:00 PM, Monday, 3/28/16—NO LATE SUBMISSIONS

Notes:

- No late submissions will be accepted for this assignment, as the solution will be posted on Monday to allow you time to study it before Exam 2.
- While typed solutions are preferred, handwritten solutions are acceptable
- All solutions must be legible and contained in one file. Archive files are not acceptable.
- Electronic submissions should be e-mailed to Dr. Geiger at Michael Geiger@uml.edu. Please include your name as part of your filename (for example, mgeiger hw6.pdf).
- This assignment is worth 100 points.

Show the result of each PIC 16F1829 instruction in the sequences below. Be sure to show not only the state of updated registers, but also the carry (C) and zero (Z) bits.

Each sequence is worth 25 points.

1.	cblock 0x20 x endc		3.	cblock 0x40 var1 endc	
	movlw sublw clrf comf xorwf swapf btfsc bsf	0x05 0x15 x x, F x, F x, W x, 7 x, 0		movlw movwf rrf xorwf btfss iorlw andwf bcf	0x1E var1 var1, F var1, W var1, 4 0x06 var1, F var1, 0
2.	cblock A B endc	0x20	4.	cblock 0x num1 endc	70 , num2
	clrf movlw movwf addlw subwf comf swapf	A 0x11 B 0x34 A, F A, W		movlw andlw movwf xorlw movwf asrf lslf xorwf comf	0xAA 0x0F num1 0xFF num2 num2, F num1, W num2, F num2, W