ECE 2534 - Homework 1 - Fall 2015

(Patterson section)
Due at Scholar before 5:00 p.m. on September 1

Naı	ame: II	O Number (last 4 digits):
Instructions: Work all of the problems, and submit your solutions to Scholar as a single document. Do not hand in paper copies. It is okay to do the work by hand, and then scan those pages. The preferred format for submission is PDF, although MS Word is acceptable. Show your work to a reasonable extent, and clearly indicate your answers. In order to give you faster feedback, only a subset of these problems will be graded in detail.		
You may use any appropriate reference materials, including your ECE 2504 textbook and on-line materials. You may share references with your classmates, but you may not share your solutions. The work that you submit must be your own.		
Problem 1. Convert each of the following decimal numbers to an <u>unsigned 8-bit binary</u> value. Also give the <u>hexadecimal</u> equivalent for each answer. (If one of the numbers cannot be represented in these format, briefly explain why.)		
a.	17	
b.	64	
C.	255	
Problem 2. Convert each of the following 8-bit 2's-complement numbers to decimal form.		
a.	(00100011) _{2cm}	
	(0.4.0.4.0.4.1.0.)	
D.	(01010110) _{2cm}	
C.	(11010110) _{2cm}	

d. $(111111111)_{2cm}$

