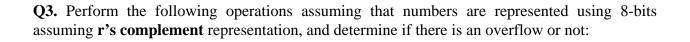
Name: Id#

COE 200, Term 041 Fundamentals of Computer Engineering

Tundamentals of Computer Engineering
Quiz# 1
Date: Monday, Oct 4 (11:00AM-12:00PM)
Q1. Represent the following numbers in binary and hexadecimal . Use as many bits as needed and approximate the fraction to 4 <u>binary</u> digits:
i. $(200.6)_{10}$
ii. (54.5) ₇
Q2. Assume that an 8-bit register contains the following number 10111000. Determine the content of the register assuming that it represents:i. an unsigned number.
ii. a 2's complement signed number.



Q4. Determine, in <u>binary</u> and <u>decimal</u>, the *smallest* (*negative*) number and the *largest* (*positive*) number that can be stored using the 2's complement notation, assuming *10-bit* representation.