**(5 pts) CS 3841 Computer Organization - Recitation #01 Name/abc123: Darin Soeung**

Iou957

1. Assuming *#bits=*8 and using 2's comp, represent the following as binary and hexadecimal values. Must do without a calculator.

###### a. 50 , Answer: 0011 0010, 0x32

###### b. -40 , Answer: 1101 1000, 0xD8

###### c. 128, Answer: no 128 in 8 bit signed, can be represented by 0x80?

###### d. -128, Answer: 1000 0000, 0x80

###### e. -1, Answer: 1111 1111, 0xFF

2. Assuming *#bits=*8 and 2’s complement show the decimal equivalent to each of the binary values for both signed and unsigned values.

###### a. 0100 0110 Answer: 70

###### b. 1100 0110, Answer: -58

3. What is the largest positive value and the largest negative value that can be stored in a 9 bit 2's comp representation?

Answer: Largest value = 255, Smallest value = -256

Spring 2019 – CS 3841 Computer Organization – Recitation Practice Page 1