

# CS1356 Introduction to Information Engineering

## Quiz 2, 2010/09/27

Your name \_\_\_\_\_ Student ID \_\_\_\_\_

1. Convert each of the following base ten representation to its equivalent **8-bit two's complement**.

- a. -65                      b. 66                      c. -12

Ans: (a)10111111

(b)01000010

(c)11110100

2. Perform each of the following additions assuming the bit pattern represent values in **two's complement notation**. Identify the cases that will cause **overflow**.

a. 010111

+ 101001

b. 101111

+ 100001

Ans: (a) 000000

(b) 010000 (overflow)