

Name:

Id#

ICS 233, Term 081

Computer Architecture & Assembly Language

Quiz# 5

Date: Saturday, Dec. 27, 2008

Q.1. What is the decimal value of the following single-precision floating-point number?

0100 0010 1100 0111 1000 0000 0000 0000

Q.2. Show the single precision binary representation for: **-1000.5**.

Q.3. Perform the following floating-point operation rounding the result to the **nearest even**.
Perform the operation using **guard**, **round** and **sticky** bits.

0100 0000 0111 1111 1111 1111 1111 1111
+ 0011 1101 0000 0000 0000 0000 0000 0001