Name: **Id#**

ICS 233, Term 072

Computer Architecture & Assembly Language

Quiz# 6

Date: Wednesday, April 30, 2008

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

```
0100 0100 1011 0000 0000 0000 0000 0000
```

Q.2. Show the single precision binary representation for: -24.0625.

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

```
  1100 0010 0000 0000 0000 0001 0100 0000
+ 0100 0110 0000 0000 1000 0000 0000 0000
```