Name: Id#

COE 301/ICS 233, Term 171

Computer Architecture & Assembly Language

Quiz# 4

Date: Thursday, Nov. 16, 2017

## **Q1.** What is the decimal value of the following single-precision floating-point number?

## **1100 0010 1110 1101 1000 0000 0000 0000**. (2 Points)

# Show the single-precision floating-point binary representation for: **120.125**.

## (2 Points)

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

## (6 Points)

**1.000 1000 0000 0000 0000 0000 000 x 28**

## **-** **1.000 0000 0000 0000 0000 0100 000 x 24**