Name: Id#

COE 301/ICS 233, Term 171

Computer Architecture & Assembly Language Quiz# 4

Date: Thursday, Nov. 16, 2017

(i)	Q1. What	is the	decimal	value	of the	following	single-precision	floating-point
	number?							

(ii) Show the single-precision floating-point binary representation for: **120.125**. (2 Points)

(iii) Perform the following floating-point operation rounding the result to the <u>nearest</u> <u>even</u>. Perform the operation using **guard**, **round** and **sticky** bits.

(6 Points)

1.000 1000 0000 0000 0000 0000 x 28

 $-1.000\ 0000\ 0000\ 0000\ 0100\ 000$ x 2^4