Name: **Id#**

COE 205, Term 021

Computer Organization & Assembly Programming

Quiz# 3

Date: Saturday, Oct. 9, 2002

Q1. Give a single logic instruction to do each of the following:

a. Convert the decimal digit (0-9) stored in register AL to its corresponding character. Note that the ASCII code of ‘0’=30h.

b. Check if the number stored in register AL is even or odd.

c. Complement the odd bits in register AL while leaving the even bits unchanged.

Q2. Write an assembly program to multiply the signed content of register AL by 28.5 based on shift and addition/subtraction instructions using the smallest number of instructions possible.