

Name:

Id#

COE 205, Term 051
Computer Organization & Assembly Programming
Quiz# 4

Date: Monday, Nov. 14, 2005

Q1. Suppose that you have the following initial content of 8086 registers:

AX=FF04H BX=0010H CX=02F2H DX=0000H

(i) Determine the content of the **destination** operand after the execution of each of the following instructions. Indicate the effect on the **overflow** flag. Use the **initial content** of the registers for the execution of each instruction.

1. MUL BX

2. IMUL CL

3. DIV BX

4. IDIV CH

(ii) Write the minimum number of instructions to do the following using only logical instructions:

1. Clear the content of the Byte variable I.

2. Change the content of AL register from upper case to lower case and from lower case to upper case, assuming that it contains either upper or lower case alphabetic characters.