Name: **Id#**

COE 205, Term 062

Computer Organization & Assembly Programming

Quiz# 5

Date: Saturday, May 12, 2007

Q1. Compare **Macros** and **Procedures** in terms of both memory space and execution time.

Q2. Write a macro than can be used to save **<u>any number</u>** of registers on the stack by specifying the registers to be saved as arguments. Then, show how the macro can be invoked to save the registers EAX, EBX, and ECX.

Q3. Given the following macro definition:

```
GET_BIG       MACRO  WORD1, WORD2
                     LOCAL EXIT
                     MOV AX, WORD1
                     CMP AX, WORD2
                     JG  EXIT
                     MOV AX, WORD2
              EXIT:
            ENDM
```

Determine the macro expansion resulting from the following macro invocation
assuming that FIRST and SECOND are word variables.

GET_BIG FIRST, SECOND