Name: Id#

## COE 205, Term 091 Computer Organization & Assembly Programming Quiz# 4

Quiz# 4
Date: Monday, Dec. 28, 2009
Q1. Fill the blank in each of the following:
1. Assume that ESP=00000100H, EAX=12345678H. After executing the instruction PUSH AX, the content of ESP= and EAX=
2. Assume that ESP=00000100H, EAX=12345678H and EBX=90ABCDEFH. After executing the following sequence of instructions, the content of ESP= and EAX=
PUSH AX PUSH BX POP EAX
3. Assuming that ESP=00000100H, after executing the instruction RET 8, the content of ESP=

4. Assuming that ESP=00000100H, after executing the instruction Call Quiz4, the content of ESP=

**Q2.** Determine what will be displayed by executing the following code:

PUSH 1
PUSH 3
PUSH 5
CALL TEST
TEST PROC
MOV EAX, [ESP + 4]
ADD EAX, [ESP + 8]
SUB EAX, [ESP + 12]
CALL WriteInt
RET 12
TEST ENDP

**Q3.** Determine the content of register EBX after executing the following code assuming EAX=5:

MyProc: CMP EAX,1

JAE ELSE

MOV EBX,0

RET

ELSE: PUSH EAX

DEC EAX
CALL MyProc
POP EAX
ADD EBX,EAX

RET