Name: KEY   **Id#**

COE 205, Term 031

Computer Organization & Assembly Programming

Quiz# 5

Date: Sunday, Dec. 14, 2003

Q1. Write a procedure to display the binary content of an 8-bit register. Assume that the 8-bit value to be displayed is passed on the stack. Then show how to use the procedure to display the content of register AL

```
        DISPB PROC
                ;reading the parameter from the stack
                MOV BP, SP
                MOV AX, [BP+2]
                ; displaying the biary content of register AL
                MOV AH, 2
                MOV CX, 8
        Next:   MOV DL, 30H
                ROL AL, 1
                ADC DL, 0
                INT 21H
                LOOP Next
                RET 2
        DISB ENDP
```

Q2. Write a macro to display the binary content of an 8-bit register. Assume that the 8-bit register to be displayed is given as a parameter to the macro. Then, show how to use the macro to display the content of register AL

```
        DISPBM MACRO      reg8
                Local Next
                MOV AL, reg8
                MOV AH, 2
                MOV CX, 8
        Next:   MOV DL, 30H
                ROL AL, 1
                ADC DL, 0
                INT 21H
                LOOP Next
        ENDM
```