

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
```