

Name:

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COE 205, Term 061
Computer Organization & Assembly Programming

Quiz# 4

Date: Sunday, Dec. 3, 2006

Q1. Given that **TABLE** is defined as: **TABLE db 'Ahmad Ali Anas'**

Determine the content of **TABLE** after executing the following code and describe briefly what the code is doing:

```
        MOV CX, lengthof TABLE
        LEA BX, TABLE
        DEC BX
Next:   INC BX
        CMP Byte PTR [BX], `A`
        LOOPNE Next
        JNE ENL
        OR Byte PTR [BX], 20h
        JCXZ ENL
        JMP Next
ENL:
```

Q2. Write an assembly program to implement the following code assuming that signed numbers are represented in registers:

```
WHILE (AX > 0) {
    IF (BX < CX) AND (BX <= 100) {
        BX = BX + DX;
    } ELSE {
        BX = BX - 2;
    }
    AX = AX - 1;
}
```