Name: Key **Id#**

COE 205, Term 023

Computer Organization & Assembly Programming

Quiz# 3

Date: Wednesday, July 16, 2003

Q1. Suppose that the following data segment is allocated in the segment given in the DS register with an offset of 0. Show the content of the allocated memory, in hexadecimal. Note that the ASCII code of character 'A' is 41H and that of 'a' is 61H.

```
I    DB    -1, 255, 'Ab'
     DW    1E4H, `Ab`
L    EQU   50
J    DD    L-17
     DW    offset I+12
K    DB    2 dup( 2dup(2,-2))
```

Memory Address (Hex)	*Memory Content Hex)*
0000	FF
0001	FF
0002	41
0003	62
0004	E4
0005	01
0006	62
0007	41
0008	21
0009	00
000A	00
000B	00
000C	0C
000D	00
000E	02
000F	FE
0010	02
0011	FE
0012	02
0013	FE
0014	02
0015	FE
0016	
0017	
0018	

Q2. Given the following data declarations, determine what is printed by each of the following statements. Note that the ASCII code for the Line Feed character is 10 and that for the Carriage Return is 13:

```
MSG  DB "Hello",13, " COE 205 ", 10, " Q2 ", "$"
MSG2 DB "Hello",10, 13, " COE 205 ", " Q2 "
MSG3 DB " Quiz#3  ", "$"
```

(i)
```
MOV AH, 2
MOV DL, MSG
INT 21H
```

H

(ii)
```
MOV AH, 2
MOV DL, MSG3-1
INT 21H
```

2

(iii)
```
MOV AH, 9
MOV DX, Offset MSG
INT 21H
```

COE 205
Q2

(iv)
```
MOV AH, 9
LEA DX, MSG2
INT 21H
```

Hello
COE 205 Q2 Quiz#3