

Name: KEY

Id#

COE 205, Term 031
Computer Organization & Assembly Programming

Quiz# 3

Date: Tuesday, Oct. 14, 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    -120, 136
      DW    1FH
L    EQU    10
J    DD    L-3
      DW    offset I+1
K    DB    2 dup( 2dup(0FH,-1))
```

<i>Memory Address (Hex)</i>	<i>Memory Content Hex</i>
0000	88
0001	88
0002	1F
0003	00
0004	07
0005	00
0006	00
0007	00
0008	01
0009	00
000A	0F
000B	FF
000C	0F
000D	FF
000E	0F
000F	FF
0010	0F
0011	FF
0012	
0013	
0014	
0015	
0016	

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",10, " COE 205 ", 13, " Q2 ", "$"  
MSG2 DB "COE 205 ", 0DH, " Q2 "  
MSG3 DB " Quiz#3 ", "$"
```

(i) **MOV AH, 2**
MOV DL, MSG+1
INT 21H

e

(ii) **MOV AH, 9**
MOV DX, Offset MSG
INT 21H

Hello
Q2 COE 205

(iii) **MOV AH, 9**
LEA DX, MSG2
INT 21H

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