

Name:

Id#

COE 205, Term 032
Computer Organization & Assembly Programming
Quiz# 3

Date: Sunday, March 14, 2004

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    -2, 250, 'Ab'
      DW    3AaH, `Cd`
L    EQU   16
J    DD    L-17
      DW    offset I+10
K    DB    2 dup( 3dup(-16,'a'))
```

<i>Variable</i>	<i>Memory Address (Hex)</i>	<i>Memory Content Hex)</i>
	0000	
	0001	
	0002	
	0003	
	0004	
	0005	
	0006	
	0007	
	0008	
	0009	
	000A	
	000B	
	000C	
	000D	
	000E	
	000F	
	0010	
	0011	
	0012	
	0013	
	0014	
	0015	
	0016	
	0017	
	0018	
	0019	

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 ”, 10, “ Q2 ”, “\$”

MSG2 DB “Hello”,13, “ COE 205 ”,13, “ Q2 ”

MSG3 DB “ Quiz#3 ”, “\$”

- (i) MOV AH, 2
MOV DL, MSG2
INT 21H

- (ii) MOV AH, 2
MOV DL, MSG2-1
INT 21H

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

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