

Name: KEY

Id#

COE 205, Term 022
Computer Organization & Assembly Programming

Quiz# 3

Date: Sunday, March 23, 2003

Q1.

- i. 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. Note that the ASCII code of character `A` is 41H.

```
I    DB    -50, `AB`  
      DW    -30  
L    EQU   50  
J    DB    L-25  
      DW    offset I+4  
K    DB    2 dup( 2dup(15))  
M    DB    `Q#3`, `$`
```

Variable	Address(Hex)	Memory Content (Hex)
I	0000	CE
	0001	41
	0002	42
	0003	E2
J	0004	FF
	0005	19
	0006	04
	0007	00
K	0008	0F
	0009	0F
	000A	0F
	000B	0F
M	000C	'Q'
	000D	'#'
	000E	'3'
	000F	'\$'

ii. Give on a separate line the string displayed on the screen by each of the following code fragments.

a. MOV DX, offset M
 MOV AH, 09H
 INT 21H

Q#3

b. MOV DX, offset M+2
 MOV AH, 09H
 INT 21H

3

c. MOV DL, M
 MOV AH, 02H
 INT 21H

Q