

Name:

Id#

COE 205, Term 052
Computer Organization & Assembly Programming
Quiz# 3

Date: Wednesday, March 15, 2006

Q1. Suppose that the following data declarations are 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. Also, the ASCII code of character '0' is 30H.

```
I    DB    -10, 32, '32'  
J    DW    1234H  
K    EQU   1  
L    DD    K-5  
      DW    J+16  
M    DB    2 dup(2, 2 dup('0'))
```

| <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 | |

Q2. Write the necessary code to do each of the following:

(i) Read a character with echo.

(ii) Read a character without echo.

(iii) Display the character \$.

(iv) Display the string HELLO!! in the beginning of a line.

(v) Read a string of maximum length of 15 characters and store it in variable Iname.