

Worksheet on Logic

Answer the following questions given:

```
char  a,b,c,d;  
a = 0x00;  
b = 0x0F;  
c = 0x09;
```

What is the value of **d** after execution of each of the following lines?

- 1) **d = a & c;** _____
- 2) **d = b & c;** _____
- 3) **d = b & 0x04;** _____

Are the following TRUE or FALSE?

- 4) **(a && c)** _____
- 5) **(b && c)** _____
- 6) **(b && 0x04)** _____

If time permits, answer the following:

What is the value of **d** after execution of each of the following lines?

- 7) **d = a | c;** _____
- 8) **d = b | 0x10;** _____

Are the following TRUE or FALSE?

- 9) **(a || c)** _____
- 10) **(a || (c & 0x10))** _____