Laboratory Worksheet #02Logic Exercise

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 the following lines?

- 1) d = a & c;
- 0x00
- 2) d = b & c;
- 0x09
- 3) d = b & 0x04;
- 0x04
- 4) d = b & 0x33;
- 0x03
- 5) d = b & !c;
- 0x00

Are the following TRUE or FALSE?

6) (a && c)

False

7) **(b && c)**

True

8) (b && 0x04)

True

What is the value of \mathbf{d} after execution of the following lines?

9) $\mathbf{d} = \mathbf{a} \mid \mathbf{c};$

0x09

10) $\mathbf{d} = \mathbf{b} \mid \mathbf{0} \mathbf{x} \mathbf{10};$

0x1F

11) $\mathbf{d} = \mathbf{b} \mid \mathbf{a};$

0x07

12) $d = b \mid !a;$

0x0F

Convert the following hex numbers to binary:

 $(\mathbf{a} \parallel \mathbf{c})$

True

14) (a \parallel (c & 0x10))

False

15) $(a \parallel !b)$

False

When complete, include Worksheet 2 with your Laboratory 1-1 Pre-lab submission.