Quiz

1. For the binary number 1000, the weight of the column with the 1 is

   a. 4

   b. 6

   c. 8

   d. 10

Quiz

2. The 2's complement of 1000 is

   a. 0111

   b. 1000

   c. 1001

   d. 1010

Quiz

3. The fractional binary number 0.11 has a decimal value of

a. ¼

b. ½

c. ¾

d. none of the above

Quiz

4. The hexadecimal number 2C has a decimal equivalent value of

a. 14

b. 44

c. 64

d. none of the above

Quiz

5. Assume that a floating point number is represented in binary. If the sign bit is 1, the

a. number is negative

b. number is positive

c. exponent is negative

d. exponent is positive

Quiz

6. When two positive signed numbers are added, the result may be larger that the size of the original numbers, creating overflow. This condition is indicated by

a. a change in the sign bit

b. a carry out of the sign position

c. a zero result

d. smoke

Quiz

7. The number 1010 in BCD is

   a. equal to decimal eight

   b. equal to decimal ten

   c. equal to decimal twelve

   d. invalid

Quiz

8. An example of an unweighted code is

   a. binary

   b. decimal

   c. BCD

   d. Gray code

Quiz

9. An example of an alphanumeric code is

   a. hexadecimal

   b. ASCII

   c. BCD

   d. CRC

Quiz

10. Identify the logic functions being performed in the following diagrams.