CS 2040 Embedded Systems: How to read and interpret schematics

1. What is the best way to learn how to read and interpret schematics for CS 2040 Embedded Systems?

a. By taking a course on the subject
b. By reading a book on the subject
c. By studying the schematics for a particular system
d. By asking someone who is already familiar with the subject

2. What is the most important thing to remember when reading and interpreting schematics for CS 2040 Embedded Systems?

a. The meaning of the symbols used in the schematics
b. The order in which the components are connected
c. The voltage levels of the various components
d. All of the above

3. Which of the following is NOT a type of component that is typically found in a schematic for CS 2040 Embedded Systems?

a. Resistors
b. Capacitors
c. Inductors
d. Transistors

4. What does a resistor do in a circuit?

a. It increases the voltage of the circuit
b. It decreases the voltage of the circuit
c. It allows current to flow through the circuit
d. It blocks current from flowing through the circuit

5. What does a capacitor do in a circuit?

a. It increases the voltage of the circuit
b. It decreases the voltage of the circuit
c. It allows current to flow through the circuit
d. It blocks current from flowing through the circuit

6. What does an inductor do in a circuit?

a. It increases the voltage of the circuit
b. It decreases the voltage of the circuit
c. It allows current to flow through the circuit
d. It blocks current from flowing through the circuit

7. What does a transistor do in a circuit?

a. It increases the voltage of the circuit
b. It decreases the voltage of the circuit
c. It allows current to flow through the circuit
d. It blocks current from flowing through the circuit

8. What is the purpose of a ground symbol in a schematic?

a. To indicate that a component is connected to the ground
b. To indicate that a component is not connected to the ground
c. To indicate that a component is connected to a power source
d. To indicate that a component is not connected to a power source

9. What is the purpose of a power symbol in a schematic?

a. To indicate that a component is connected to the ground
b. To indicate that a component is not connected to the ground
c. To indicate that a component is connected to a power source
d. To indicate that a component is not connected to a power source

10. Which of the following is NOT a type of connection that is typically found in a schematic?

a. Parallel
b. Series
c. Ground
d. Power

Answer Key:

1. d
2. d
3. c
4. b
5. c
6. d
7. c
8. a
9. c
10. c