Part 2: Grammar

Exercise 1: Write questions for the underlined words in these sentences:

1. Alessandro Volta invented the first electric circuit.

2. The first electric circuit was invented in 1800.

3. An electric circuit includes a power source, a switch, a conducting system and a load.

4. Electrical systems can be modeled using the electric circuits

5. Parallel circuit is the type of circuit used for home appliances and industrial installation.

6. The voltage source provides the electrical energy required for the circuit to function.

7. Passive means that the component's behavior changes little with voltage or current fluctuations.

8. The plates of the capacitor are made of aluminum foil.

9. Capacitors store energy by holding apart pairs of opposite charges.

10. Inductance is defined as the ratio of the voltage to the rate of change of current.

To ask for the function or the purpose of using something (such as a device, a tool, etc) we can use the following questions:

What does **it** do? What is **it** for? What is **it** used for? Why is **it** used?

Example: describing the function of a voltmeter.

Q: What does a voltmeter do?

A: It measures the voltage or potential difference.

Q: What is a voltmeter for? What is it used for? Why is it used?

A: It is for measuring voltage or potential difference.

A: It is used for measuring voltage or potential difference.

A: it is used to measure voltage or potential difference.

Exercise 2: Answer the following questions.

Q1: What is a Multi-meter for?

A:

Q2: What is an Ammeter used for?

A:

Q3: What does an Oscilloscope do?

A:

Q4: What is a switch for?

A:

Exercise 3: Write questions to the following answers.

Q1:

A: Fuses are used to preserve components from overloading with excessive current.

Q2:

A: A motor transforms electrical energy into mechanical energy.

Q3:

A: Printed Circuit Boards provide a physical platform for mounting and connecting components in a circuit.

Q4:

A: A direct voltage source is used for producing direct voltage output.