

CHAPTER-3 | Electricity – Circuits and their Components

QUIZ
PART-01

1. What is electricity mainly described as?

- A. A solid substance
- B. A form of energy
- C. A natural resource only
- D. A chemical reaction (B)

Explanation : Electricity is defined as a form of energy that powers many devices and machines.

2. How is electricity transferred from one place to another?

- A. Through air
- B. Through water
- C. Through wires
- D. Through magnets (C)

Explanation : Electricity is transferred from one place to another through wires.

3. Which of the following is NOT mentioned as a way to generate electricity?

- A. Water
- B. Wind
- C. Solar energy
- D. Sound (D)

Explanation : Electricity can be generated from water, wind, solar energy, and fuel, but not from sound.

4. In which of the following places is electricity used?

- A. Factories and farms
- B. Homes
- C. Schools and hospitals
- D. All of the above (D)

Explanation : Electricity is used in factories, farms, homes, schools, and hospitals.

5. Which of the following is an example of using electricity for cooking?

- A. Television
- B. Electric kettle
- C. Fan
- D. Water pump (B)

Explanation : An electric kettle is used for cooking and heating food.

6. Which devices are used for heating and cooling using electricity?

- A. Mixer and toaster
- B. Fan and room heater
- C. Television and radio
- D. Mobile phone and internet (B)

Explanation : Fans, room heaters, refrigerators, and air conditioners are used for heating and cooling.

7. Electricity used for entertainment includes which of the following?

- A. Crane and water pump
- B. Mobile phone and internet
- C. Television and radio
- D. Train and lift (C)

Explanation : Television and radio are examples of entertainment devices that use electricity.

8. Which of the following is a source of electricity?

- A. Plastic
- B. Windmill
- C. Paper
- D. Rubber (B)

Explanation : Windmills are listed as a source of electricity.

9. Why should electric appliances not be touched with wet hands?

- A. They may stop working
- B. Electricity can be dangerous
- C. They consume more power
- D. They become dirty (B)

Explanation : Electricity can be dangerous if not handled carefully, especially with wet hands.

10. What should be used for science experiments instead of home electric sockets?

- A. Electric wires
- B. Extension boards
- C. Batteries or cells
- D. Power stations (C)

Explanation : Only batteries or cells should be used for science experiments for safety reasons.