

2 Lecture - PHY301

Important Mcqs

Which terminal of a battery is typically marked with a "+" symbol?

- a) Positive terminal
- b) Negative terminal
- c) Both terminals
- d) None of the above

Answer: a) Positive terminal

Which terminal of a battery is typically marked with a "-" symbol?

- a) Positive terminal
- b) Negative terminal
- c) Both terminals
- d) None of the above

Answer: b) Negative terminal

What role does the positive polarity of a battery play in a circuit?

- a) Determines the voltage of the circuit
- b) Determines the direction of the electrical current flowing through the circuit
- c) Both A and B
- d) None of the above

Answer: b) Determines the direction of the electrical current flowing through the circuit

What role does the negative polarity of a battery play in a circuit?

- a) Determines the voltage of the circuit
- b) Determines the direction of the electrical current flowing through the circuit

- c) Both A and B
- d) None of the above

Answer: a) Determines the voltage of the circuit

What is the unit of voltage?

- a) Ampere
- b) Watt
- c) Volt
- d) Ohm

Answer: c) Volt

What is the function of the positive terminal of a battery in a circuit?

- a) Where the electrical current flows into the battery
- b) Completing the circuit
- c) Where the electrical current flows out of the battery and into the circuit
- d) None of the above

Answer: c) Where the electrical current flows out of the battery and into the circuit

What is the function of the negative terminal of a battery in a circuit?

- a) Where the electrical current flows into the battery
- b) Completing the circuit
- c) Where the electrical current flows out of the battery and into the circuit
- d) None of the above

Answer: a) Where the electrical current flows into the battery

Which of the following is true regarding the voltage of a circuit?

- a) Higher voltage batteries can deliver less energy to the circuit
- b) Lower voltage batteries can deliver more energy to the circuit
- c) Higher voltage batteries can deliver more energy to the circuit

d) None of the above

Answer: c) Higher voltage batteries can deliver more energy to the circuit

Why is understanding the polarity of a battery important in circuit theory?

a) Determines the direction of the electrical current flowing through the circuit

b) Determines the voltage of the circuit

c) Helps to identify problems in a circuit

d) All of the above

Answer: d) All of the above

How can understanding the positive and negative polarities of batteries help in troubleshooting problems in a circuit?

a) Identifying the direction of the electrical current flowing through the circuit

b) Identifying the voltage of the circuit

c) Both A and B

d) None of the above

Answer: c) Both A and B