Voltage Quiz Answer Key PDF

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In which situations is voltage critical for troubleshooting? (Select all that apply)

A. Diagnosing electrical faults ✓
C. Calculating power consumption ✓
D. Design circuit layouts ✓
C. Painting a house

What are potential dangers of high voltage? (Select all that apply)

A. Electric shock ✓
C. Fire hazards ✓
D. Overheating of devices ✓
C. Improved efficiency

Which symbol is commonly used to represent voltage in circuit diagrams?

A. I
C. V ✓
D. P
C. R

Which of the following are potential sources of voltage? (Select all that apply)

A. Solar panels ✓
C. Resistors
D. Generators ✓
C. Battery ✓

What is the standard unit of voltage?

A. Amperee
C. Volt ✓
D. Watt
C. Ohm

Which of the following is a common source of voltage?

A. Resistor
C. Battery ✓
D. Inductor
C. Capacitor

What happens to the voltage in a series circuit?

A. It is multiplied by the number of components.
C. It is divided among components. ✓
D. It remains constant.
C. It is zero.

In a parallel circuit, how does voltage behave across components?

A. It is divided among components.
C. It remains constant across all components. ✓
D. It fluctuates randomly.
C. It is zero.

Which of the following devices can measure voltage? (Select all that apply)

A. Voltmeter ✓
C. Ammeter
D. Ohmmeter
C. Multimeter ✓

Which of the following are units of voltage? (Select all that apply)

A. Joules per coulomb ✓
C. Watts

D. Amperes
C. Volts ✓

What type of voltage remains constant over time?

A. Alternating Voltage
C. Direct Voltage ✓
D. Inductive Voltage
C. Reactive Voltage

What device is used to measure voltage across two points in a circuit?

A. Ammeter
C. Voltmeter ✓
D. Ohmmeter
C. Thermometer

What are characteristics of alternating voltage (AC)? (Select all that apply)

A. Changes direction periodically ✓
C. Remains constant over time
D. Used in household power supply ✓
C. Measured in amperes

What is the relationship between voltage, current, and resistance according to Ohm's Law?

A. V = I / R
C. V = I × R ✓
D. V = R / I
C. V = I + R