

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) What is the symbol for voltage used in calculations? 1) _____
A) R
B) E
C) EMF
D) I

- 2) If two insulated wires were to melt together where the copper conductors touched each other, the type of failure would be called a(an) _____. 2) _____
A) short-to-voltage
B) short-to-ground
C) open
D) floating ground

- 3) In a circuit with high resistance _____. 3) _____
A) electrical loads may still operate but less efficiently
B) no electrical device will function
C) Both A and B
D) Neither A nor B

- 4) A circuit with a short-to-voltage may cause _____. 4) _____
A) other circuits to malfunction
B) improper operation of loads in the circuit
C) Both A and B
D) Neither A nor B

- 5) A shorted circuit _____. 5) _____
A) could include an open circuit
B) always causes the fuse to blow
C) Both A and B
D) Neither A nor B

- 6) A loose ground connection _____. 6) _____
A) causes reduced current flow
B) causes less power to be available to the electrical components
C) Both A and B
D) Neither A nor B

- 7) How many watts are consumed by a starter motor if it draws 150 amperes at 10 volts? 7) _____
A) 15 watts
B) 150 watts
C) 1500 watts
D) 15000 watts

- 8) Electrical controls such as switches _____. 8) _____
- A) control electrical flow in the circuit
 - B) may be on either the source or ground side of the circuit
 - C) Both A and B
 - D) Neither A nor B
- 9) An electrical circuit uses 12 volts and has a current flow of 2 amps. What is the wattage? 9) _____
- A) 6 watts
 - B) 24 watts
 - C) 12 watts
 - D) None of these
- 10) If the voltage increases in a circuit, what happens to the current (amperes) if the resistance stays the same? 10) _____
- A) Increases
 - B) Decreases
 - C) Remains the same
 - D) Cannot be determined

Answer Key

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1) B

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2) A

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3) A

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4) C

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5) D

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6) C

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7) C

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8) C

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9) B

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10) A

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