

Name _____

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

- 1) Technician A says that resistance increases as the diameter of a conductor increases. Technician B says that resistance increases as the temperature of a conductor increases. Which technician is correct? 1) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) Which unit of electricity does the work in a circuit? 2) _____
 - A) Volt
 - B) Ampere
 - C) Ohm
 - D) Coulomb

- 3) A rheostat usually has how many wires? 3) _____
 - A) Two
 - B) Three
 - C) Four
 - D) None of these

- 4) Which variable resistor is most likely used for a dash light dimmer control? 4) _____
 - A) Rheostat
 - B) Potentiometer
 - C) Piezoelectric
 - D) None of these

- 5) If a conductor is moved through a magnetic field, _____ is produced. 5) _____
 - A) Vacuum
 - B) Gravity
 - C) Electricity
 - D) Flame

- 6) A potentiometer, a three-wire variable resistor, is used in which type of sensor? 6) _____
 - A) Throttle position (TPS)
 - B) Manifold Absolute Pressure (MAP)
 - C) Barometric Pressure Sensor (BARO)
 - D) Knock Sensor (KS)

- 7) The automotive battery is based on the principle of _____. 7) _____
 - A) Electrochemistry
 - B) Photoelectricity
 - C) Piezoelectric energy
 - D) None of these

- 8) Electrical power is calculated by _____. 8) _____
A) Multiplying volts by amperes
B) Dividing voltage by current
C) Multiplying volts by ohms
D) None of these
- 9) It is relatively easy to move an electron from the valence ring of a conductor. 9) _____
A) True
B) False
- 10) The fact that voltage can be created by exerting force on a crystal is used in which type of sensor? 10) _____
A) Throttle position (TPS)
B) Manifold absolute pressure (MAP)
C) Barometric sensor (BARO)
D) Knock sensor (KS)

Answer Key

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1) B

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2) B

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3) A

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4) A

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5) C

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6) A

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7) A

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8) A

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9) A

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10) D

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