Automotive Technology 6th Edition
Chapter 39 - Electrical Fundamentals
Quiz 39B

Name_____

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

1) Creating electricity by exerting force on a crystal is called _____. 1) _____
A) electrochemistry
B) piezoelectricity
C) thermoelectricity
D) photoelectricity

2) What term describes the movement of electrons from one atom to another? 2) _____
A) Electricity
B) Energy transfer
C) Chain reaction
D) None of these

3) Technician A says that a two–wire variable resistor is called a rheostat. Technician B says that a three–wire variable resistor is called a potentiometer. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

4) The outer electron shell is known as a(n) _____. 4) _____
A) valence ring
B) distant ring
C) unstable shell
D) None of these

5) The fact that voltage can be created by exerting force on a crystal is used for which type of sensor? 5) _____
A) Throttle position (TPS)
B) Manifold absolute pressure (MAP)
C) Barometric sensor (BARO)
D) Knock sensor (KS)

6) Which device produces electrical current resulting from the heating of two dissimilar conductors? 6) _____
A) Thermocouple
B) Volt meter
C) Ammeter
D) None of these

7) Which of these is also known as electrical potential? 7) _____
A) Volts
B) Amps
C) Ohms
D) None of these

8) Electricity moving through a conductor produces a magnetic field. This principle is used in which of the following? 8) _____

A) Ignition coil
B) Starter motor
C) Relay
D) All of these

9) Electrical power (watts) is calculated by _____. 9) _____

A) multiplying volts by current
B) dividing voltage by current
C) multiplying volts by ohms
D) none of these

10) The automotive battery is based on the principle of _____. 10) _____

A) electrochemistry
B) photoelectricity
C) piezoelectric energy
D) none of these

Answer Key
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1) B
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2) A
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3) C
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4) A
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5) D
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6) A
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7) A
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8) D
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9) A
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10) A
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