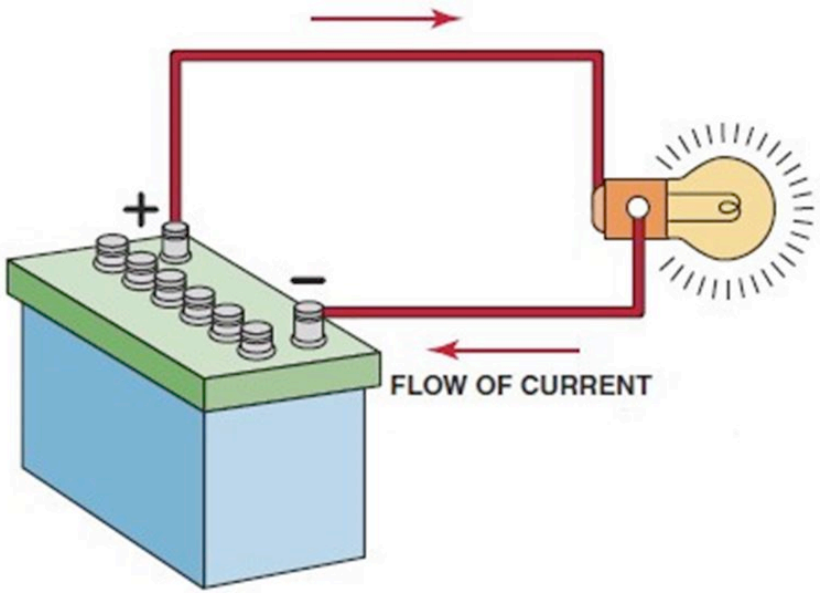
Automotive Electricity and Electronics, 6th Edition
Quiz 4B

Name_____

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

1) This diagram indicates current flow using which theory of current flow? 1) _____



A) Conventional Theory
B) Electron Theory
C) Watts Theory
D) Battery Theory

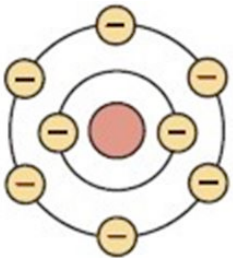
2) Carbon and silicon are examples of _____. 2) _____
A) Semiconductors
B) Insulators
C) Conductors
D) Photoelectric materials

3) Which device produces electrical current resulting from heating of two dissimilar conductors? 3) _____
A) Thermocouple
B) Volt meter
C) Ammeter
D) None of these

4) What will happen as these two magnets are moved closer together? 4) _____

A) They will snap together.
B) They will repel each other.
C) A spark will be created.
D) Nothing

5) What type of material is indicated by this atomic structure? 5) _____



A) Insulator
B) Conductor
C) Semi-conductor
D) Coaxial

6) 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? 6) _____

A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

7) Which of these automotive components does NOT rely on magnetism to operate correctly? 7) _____

A) Wheel bearing
B) Starter
C) Ignition coil
D) Solenoid

8) The outer electron shell is known as a(an) _____. 8) _____

A) Valence ring
B) Distant ring
C) Unstable shell
D) None of these

9) Potentiometer is a resistor where a wiper contract provides a _____. 9) _____

A) Variable voltage output
B) Variable voltage input
C) Leading voltage
D) None of these

10) Creating electricity by exerting force on a crystal is called _____. 10) _____

A) Electrochemistry
B) Piezoelectricity
C) Thermoelectricity
D) Photoelectricity

Answer Key
Testname: AEE6_4B

1) A
Page Ref: 56-57
2) A
Page Ref: 56
3) A
Page Ref: 59
4) B
Page Ref: 54
5) A
Page Ref: 56
6) C
Page Ref: 62
7) A
Page Ref: 60
8) A
Page Ref: 55
9) A
Page Ref: 62
10) B
Page Ref: 60