

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

1) As temperature increases, _____. 1) _____

- A) The resistance of a conductor remains the same
- B) The voltage of the conductor decreases
- C) The resistance of a conductor increases
- D) The resistance of a conductor decreases

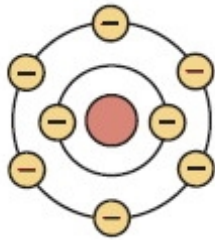
2) Technician A says that resistance increases as the diameter of a conductor increases. Technician B says that resistance increases as the temperature of a conductor increases. Which technician is correct? 2) _____

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

3) The _____ is a unit of electrical pressure. 3) _____

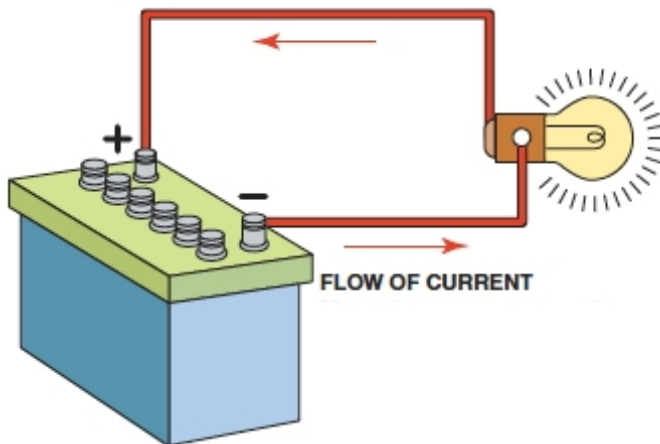
- A) Coulomb
- B) Ampere
- C) Ohm
- D) Volt

4) What type of material is indicated by this atomic structure? 4) _____



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

5) This diagram indicates current flow using which theory of current flow? 5) _____



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

6) Insulators lose electrons in their outer shell easier than conductors. 6) _____

- A) True
- B) False

- 7) It is relatively easy to move an electron from the valence ring of a conductor. 7) _____
 A) True B) False
- 8) Carbon and silicon are examples of _____. 8) _____
 A) Photoelectric materials B) Insulators
 C) Conductors D) Semiconductors
- 9) Which of these is also known as electrical potential? 9) _____
 A) Volts B) Ohms C) Amps D) None of these
- 10) What term describes the movement of electrons from one atom to another? 10) _____
 A) Chain reaction B) Energy transfer C) Electricity D) None of these
- 11) Semiconductors have how many electrons in their outer orbit? 11) _____
 A) More than four B) Four C) Less than four D) None of these
- 12) Like charges _____ 12) _____
 A) Neutralize each other B) Repel
 C) Add D) Attract
- 13) The outer electron shell is known as a(an) _____. 13) _____
 A) Distant ring B) Unstable shell C) Valence ring D) None of these

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 14) A magnet has a south pole, a north pole, and a S/N pole. 14) _____

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- 15) The Greek letter omega (Ω) represents what unit of electricity? 15) _____
 A) Volt B) Coulomb C) Ohm D) Ampere
- 16) The _____ is a unit of electrical resistance. 16) _____
 A) Ohm B) Volt C) Ampere D) Coulomb
- 17) Electromotive force is another term for _____. 17) _____
 A) Resistance B) Voltage C) Current D) None of these
- 18) An electrical conductor is an element with _____ electrons in its outer orbit. 18) _____
 A) More than 4 B) Exactly 4 C) Less than 2 D) Less than 4
- 19) Which unit of electricity actually measures the amount of current flow? 19) _____
 A) Volt B) Ohm C) Coulomb D) Ampere
- 20) Which of the following are conductors? 20) _____
 A) Copper B) Gold C) Silver D) All of the above