

ASVAB Section 5: Electronic Information

1. Ohm's law states:

A. Voltage = Current \times Resistance

B. Amperes = Current \times Resistance

C. Voltage = Resistance \div Amperes

D. Ohms = Voltage \div Current

Answer(s): A

2. Which of the following materials usually has an electromagnetic-induction device in its core?

A. brass

B. silver

C. aluminum

D. iron

Answer(s): D

3. How many diodes should you expect to find in a bridge rectifier?

A. 0

B. 4

C. 8

D. 10

Answer(s): C

4. Another name for cycles per second is _____.

A. watts

B. voltage

C. hertz

D. amperes

Answer(s): C

5. Newer cell phones contain a removable memory card, which is often called a _____.

A. SIM card

B. DIM chip

C. PIN card

D. Pin chip

Answer(s): A

6. When current flows through a wire, the following influences are present _____.

A. amperes and ohms only

B. voltage, watts, and ohms only

C. voltage and amperes only

D. voltage, ohms, and amperes

Answer(s): D

7. Millihenries are related to _____.

A. capacitors

B. inductors

C. relays

D. transformers

Answer(s): B

8. Radar can operate at frequencies as high as _____.

A. 100,000 Hz

B. 100,000 kHz

C. 100,000 MHz

D. 500,000 MHz

Answer(s): C

9. Radio waves travel _____.

A. at the speed of light

B. at the speed of sound

C. faster than the speed of light

D. faster than the speed of sound but slower than the speed of light

Answer(s): A

10. Changing alternating current to direct current is called _____.

A. capacitance

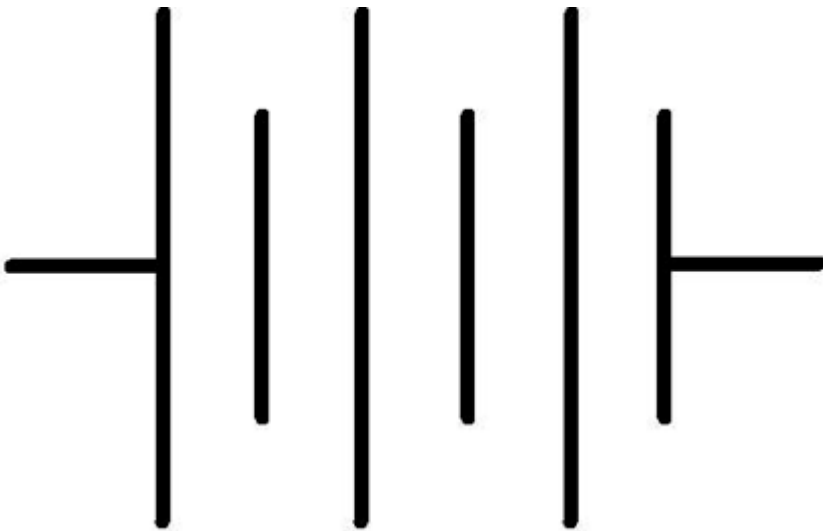
B. impedance

C. rectification

D. induction

Answer(s): C

11. Insulated fittings can be used to splice wires, thus eliminating the need for _____.



A. cleaning the wires

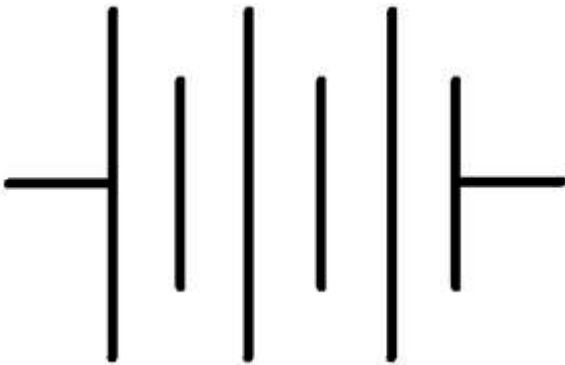
B. removing the plastic coating from the wires

C. twisting the wires together

D. soldering the wires together

Answer(s): D

12. The symbol shown above stands for _____.



A. battery

B. transformer

C. capacitor

D. resistor

Answer(s): A

13. How many wires do serial cables used on computers have?

A. 3

B. 9

C. 15

D. 25

Answer(s): B

14. To produce greater storage of electrons and more capacitance, capacitors should

_____.

A. be connected in parallel

B. be connected in series

C. have more voltage applied to them

D. be eliminated

Answer(s): A

15. A light bulb is 60 watts.

Operated at 120 volts, how much current does it draw?

A. 0.5 ampere

B. 5.0 amperes

C. 50.0 amperes

D. 7.200 amperes

Answer(s): A

16. A number-12 wire, compared to a number-6 wire _____.

A. is longer

B. is shorter

C. is smaller in diameter

D. is larger in diameter

Answer(s): C

17. A fuse with a higher-than-required rating used in an electrical circuit _____.

A. improves safety

B. increases maintenance

C. may not work properly

D. is less expensive

Answer(s): C

18. Neutral wire is always _____.

A. whitish or natural

B. black

C. green

D. blue

Answer(s): A

19. To measure electrical power, you would use a(n) _____.

A. ammeter

B. ohmmeter

C. voltmeter

D. wattmeter

Answer(s): D

20. If you operate an incandescent light bulb at less than its rated voltage _____.

A. the bulb will burn brighter and last longer.

B. the bulb will burn dimmer and last longer.

C. the bulb will burn brighter but won't last as long.

D. the bulb will burn dimmer but won't last as long.

Answer(s): B
