

Question 1

Which of the following would make a poor insulator?

- a. gold
- b. wood
- c. glass
- d. rubber

Question 2

Increasing the voltage in a circuit will produce which of the following results?

- a. the current will increase
- b. the current will decrease
- c. the resistance will increase
- d. the resistance will decrease

Question 3

How much power is being carried in a 120-volt circuit when the current is 12 amps?

- a. 10 watts
- b. 240 watts
- c. 1,200 watts
- d. 1,440 watts

Question 4

Which of the following is not necessary to make an electric circuit?

- a. a switch
- b. a closed path
- c. resistance
- d. a voltage source

Question 5

A 480-volt circuit has a resistance of 24 ohms. How much current is flowing?

- a. 0.05 amperes
- b. 20 amperes
- c. 48 amperes
- d. can't tell from the information provided

Question 6

If a third light bulb is added to a circuit that already includes two light bulbs, which of the following will occur?

- a. The current draw will increase.
- b. The current draw will decrease.
- c. Both A and B
- d. Neither A nor B

Question 7

Current that changes polarity many times per second is called

- a. direct current
- b. alternating current
- c. AC/DC current
- d. reverse-polarity current

Question 8

If you want electrical current to flow in only one direction you should use _____

- a. a diode
- b. a capacitor
- c. a resistor
- d. a transformer

Question 9

The two most commonly used metals in solder are _____

- a. tin and lead
- b. tin and aluminum
- c. gold and tin
- d. silver and gold

Question 10

If a 120-volt light bulb is rated for 60 watts, what is the bulb's rated current?

- a. 0.5 amps
- b. 5 amps
- c. 720 amps
- d. 50 amps

Question 11

Copper is used in most electric wires because it is

- a. a semiconductor
- b. not likely to heat up during normal usage
- c. a good resistor and inexpensive
- d. a good conductor and inexpensive

Question 12

A static charge _____

- a. does not move
- b. does not carry electricity
- c. does move
- d. carries electricity from an electron to a proton

Question 13

A lead-acid storage battery presents an explosion hazard if you

- a. undercharge it.
- b. add too much water.
- c. add too little water.
- d. get a spark near it.

Question 14

An electric current is made of moving

- a. ohms
- b. neutrons
- c. protons
- d. electrons

Question 15

A material with high resistance is classified as a(an) _____

- a. insulator
- b. conductor
- c. semiconductor
- d. resistor

Question 16

Protons have a _____ charge.

- a. positive
- b. negative
- c. neutral
- d. alternating

Question 17

If the resistance of a circuit is 0, the circuit is

- a. an open circuit
- b. a short circuit
- c. a superconductor circuit
- d. a semiconductor circuit

Question 18

At 120 volts, a 15-ampere circuit will carry _____ power than a 20-ampere circuit.

- a. more
- b. less
- c. first less, then more
- d. first more, then less

Question 19

Which of the following is NOT a type of switch?

- a. linear
- b. single pole
- c. rotary
- d. dimmer

Question 20

Alternating voltage typically used in the United States has a frequency of _____

- a. 60 Hz
- b. 110 Hz
- c. 120 Hz
- d. 80 Hz

ANSWERS: ASVAB Practice Test – Electronics Information

1. A
2. A
3. D
4. A
5. B
6. A
7. B
8. A
9. A
10. A
11. D
12. A
13. D
14. D
15. A
16. A
17. B
18. B
19. A
20. A