ASVAB-SECTION-5 Q&As

ASVAB Section Five : Electronic Information

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QUESTION 1

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

Correct Answer: D

Insulated fittings replace soldering.

QUESTION 2

To control a light fixture from two different wall switches, you should use _____.

A. a single-pole switch and a four-way switch

B. two three-way switches

C. two four-way switches

D. two single-pole switches

Correct Answer: B

To control a light fixture from two different positions, use two three-way switches.

QUESTION 3

Radio frequency amplifiers are used in _____.

A. audio amplifiers

B. differential amplifiers

C. operational amplifiers

D. receivers and transmitters

Correct Answer: D

Radio frequency amplifiers are used in receivers and transmitters to amplify frequencies above the range of sounds audible to humans.

QUESTION 4

The symbol for inductance is _____.

A. XL

B. I

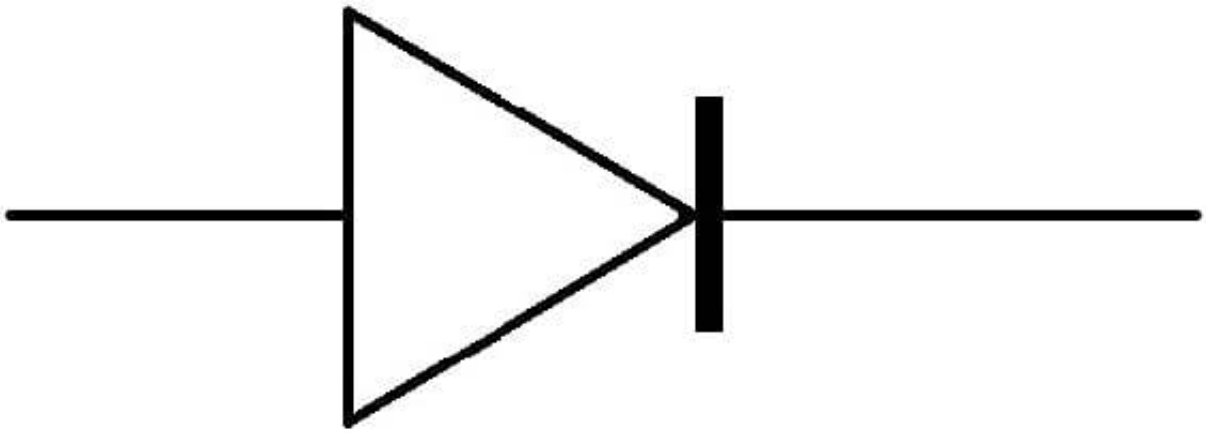
C. L

D. XC

Correct Answer: C

The symbol for inductance is L. The symbol for an inductor is a loop as in a coil of wire.

QUESTION 5



The electronic symbol shown below represents a(n) _____.

A. Capacitor

B. Transistor

C. Inductor

D. Diode

Correct Answer: D

The symbol is a standard representation of a diode.

QUESTION 6

The two types of transistors are _____.

A. PNP and NPN

B. PPP and NNN

C. ABC and BCA

D. CBC and PRN

Correct Answer: A

QUESTION 7

To cause a current of 10 amperes to flow through 20-ohm resistance, the voltage needed is _____.

A. 20 volts

B. 1 volt

C. 10 volts

D. 200 volts

Correct Answer: D

Ohm\\'s law states that V = IR. V = 10 ?20 = 200.

QUESTION 8

Voltage is also known as _____.

A. electrical potential

B. current charge

C. shock factor

D. electronic strength

Correct Answer: A

QUESTION 9

Electricity is defined as _____.

A. the flow of electrons along a conductor

B. the flow of ions along a conductor

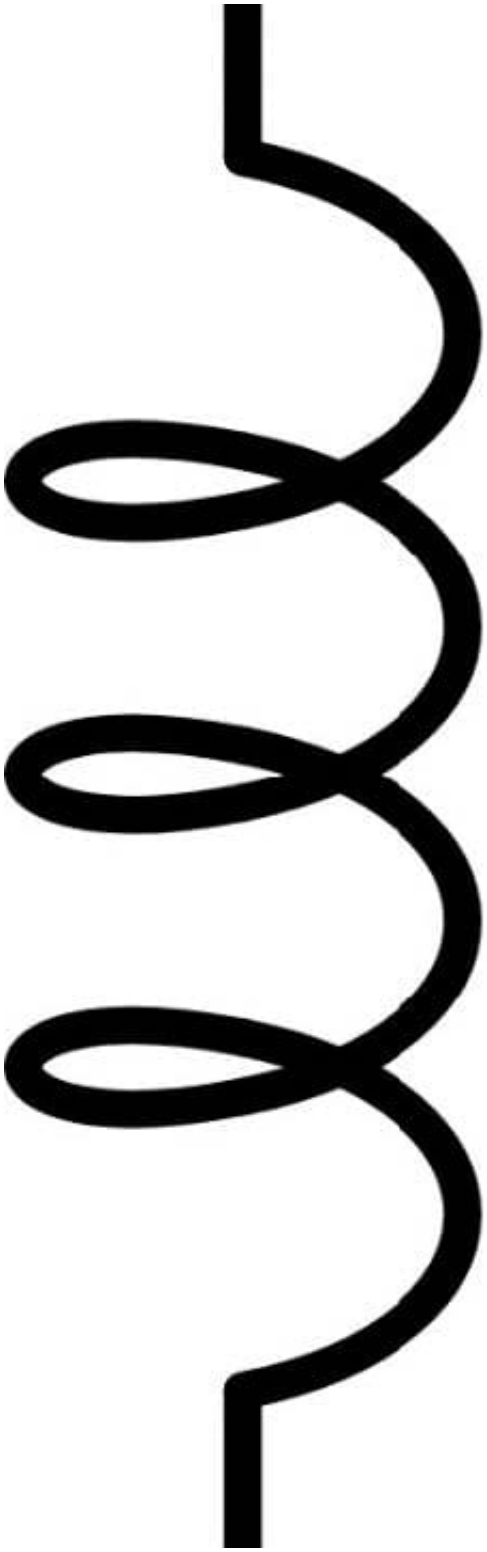
C. the movement of charges

D. static electricity

Correct Answer: A

The definition of current electricity is the flow of electrons. Static electricity is conceived of as standing still or collecting on surfaces

QUESTION 10



This symbol is the symbol for which of these electrical circuit components?

A. inductor

B. elevator

C. conductor

D. resistor

Correct Answer: A

QUESTION 11

16-gauge wire is _____ than 12-gauge wire.

A. less flexible

B. more flexible

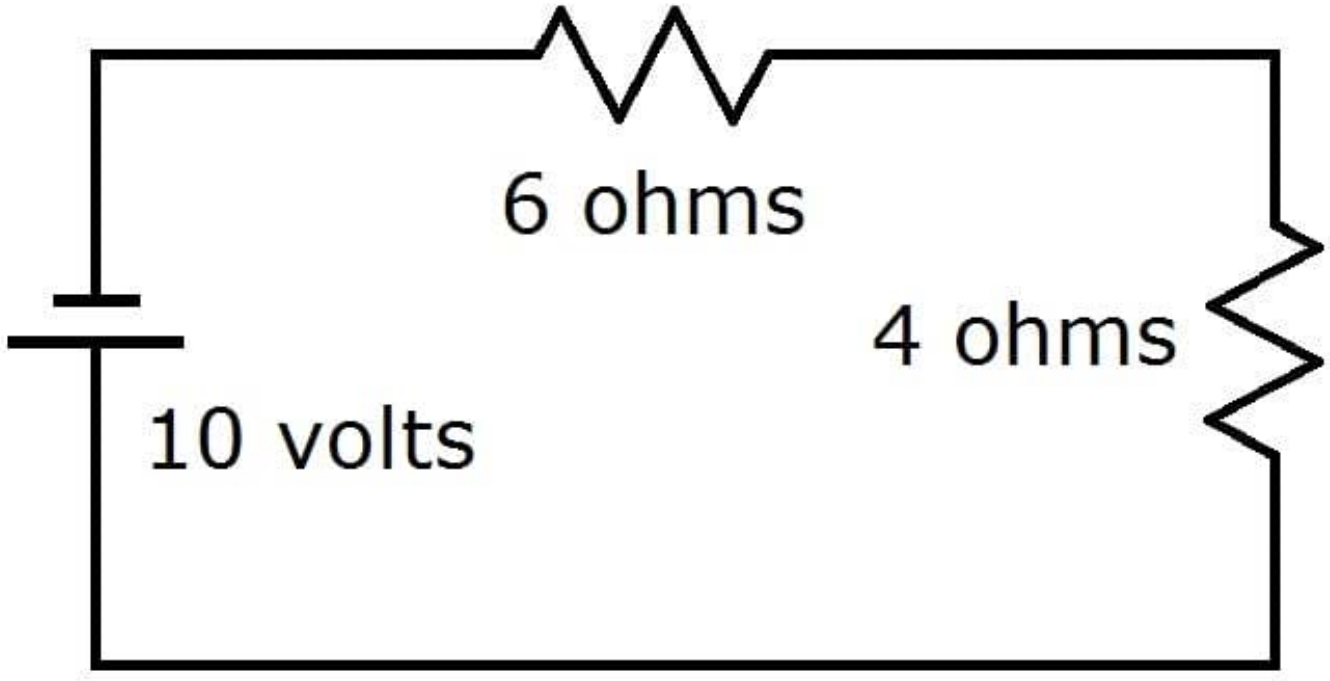
C. thinner

D. thicker

Correct Answer: C

16-gauge wire is thinner than 12-gauge wire ?the larger the gauge number, the thinner the wire.

QUESTION 12



The current in the 4 ohm resistor is _____.

A. 2 amps

B. 2.5 amps

C. 0.4 amps

D. 1 amp

Correct Answer: D

Use Ohm\\'s law - V=IR. The total resistance in the circuit is 10 ohms (add the resistance for serial resistors).

Therefore, the total current across either of the resistors is I = V/R = 10/10 =1 amp.

QUESTION 13

Convention current flow is from _____.

A. + to +

B. - to +

C. + to

D. - to

Correct Answer: C

Conventional current flow is said to be from + to -. This idea was originally used by Ben Franklin to explain the conduct of lightning.

This conventional flow is still used today by electrical engineers and people working in physics.

QUESTION 14

What is the total resistance when two 10 ohm resistors are connected in series?

A. 5 ohms

B. 10 ohms

C. 20 ohms

D. 100 ohms

Correct Answer: C

When resistors are in series, you simply add their resistance together to find a total resistance. 10 + 10 = 20 ohms.

QUESTION 15

Which of these is an acceptable symbol used for amperes?

A. Ampo

B. M

C. Am

D. A

Correct Answer: D

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