

Unit 2/ L 3

ST name: 4 \

Q1: Put correct number of meaning near each type of energy:

- 1-The flow of electricity through a conductor.
- 2-Material through which electricity flows easily.
- 3-Material that slow or stops flow of electricity.
- 4-The path through which electric current flow.
- 5-An object that resists flow of energy in electrical circuit.
- 6-Path has little or no resistance that connects two ends of an electrical source.
- 7-Is an electric circuit that produce magnetic field.

A-(.....) Conductor

موصل

B-(.....) Insulator

عازل

C-(.....) Electric current

تيار كهربى

D-(.....) Short circuit

فُصر الدارة

E-(.....) Resistor

مقاومة

F-(.....) Circuit

دائرة كهربية

G-(...) Electromagnet

مغناطيس كهربى

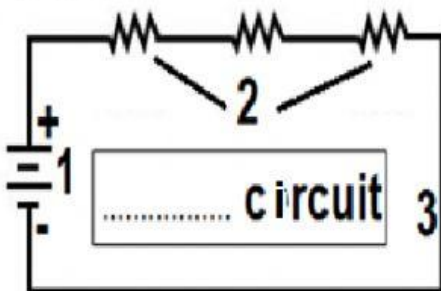
Q2: Answer each one correctly:

A-Put correct number near each materials if its Conductors(1) or Insulators(2):

1-Conductors: موصل

2-Insulators: عازل

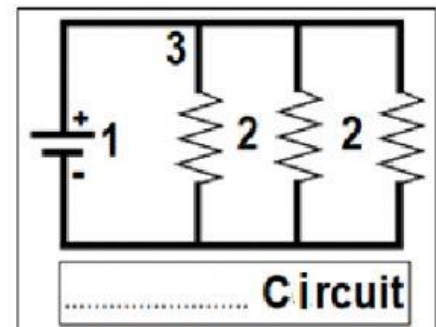
- | | | |
|--------------------|-----------------------|---------------------------|
| (.....) Wood خشب - | (.....) Steel فلاد - | (.....) Plastic بلاستيك - |
| (.....) Wool صوف - | (.....) Copper نحاس - | (.....) Metal معدن) |

Q3- Put correct number near each part of circuit? Then put Series or Parallel in blank

(.....) Wire

(.....) Resistor

(.....) Voltage source.

**Q4: Choose correct answer:**

1-A fan is plugged into an extension cord. The extension cord is plugged into a wall outlet. *How does the extension cord help the fan work?*

- a-It makes fan more powerful. b-It transfers sound energy to fan.
c-It transfers electric currents from outlet to fan.



2- A flow of electrical charges is known as

- a-Electrical current b-Static electricity c-Voltage d-Resistance

3-In an electric circuit, a battery can act as a

- a-Conductor b-Voltage source c-Insulator d-Resistor

4- You are asked to design a product that will change electrical energy to heat energy.

Choose the item you would research while developing your product.

- a-Alarm clock b-Ceiling fan c-Hair dryer d-Cell phone

5-Amy touched a machine called a Van de Graaf generator, all of her hair stood up. When she removed her hand from the generator, her hair fell back to its normal state. What do you think happened?

- a-Charged particles are being pulled from the air.
b-Charged particles are being pulled from the floor.
c-Charged particles are being destroyed.
d-Charged particles are being moved from one object to another.

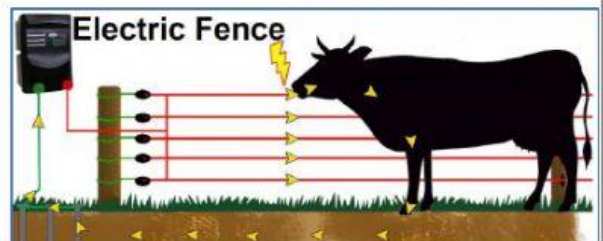


6- A switch in a circuit are

- a-Acts as an insulator b- Keeps the flow of electricity at a safe level
c-Allows or stops the flow of electricity. d- Absorbs electricity

8-An electric fence used to contain cattle works by transmitting energy through a conductor creating an electric

- a-Light b- Sound c-Current



Q5- Choose correct answer:

- 1- The circuits in your home and school are (Series - Parallel)

Q6- Connect each sentence to correct answer:

A-In, electricity is used to produce motion.

B-In, motion is used to produce electricity.

a generator

electric motor