International Indian School Buraidah

Science Worksheet Class-7th

Chapter#14 Electric Current and its effects

Q-1 Fill in the blanks-

a.Like terminals of cells are linked in _____.
b.A complete path for the flow of electric current is called _____
c.The amount of heat generated by a metal conductor depends on the _____ of the conductor.
d.A device used to break or complete the circuit is _____
e.The flow of charges through a circuit is called_____
f.When electric current is passed through a material with high resistant ??? is generated.
g.Combination of cells is called _____.
h.Unit of electric current is _____.
i.Tungsten metal has _____.
j.If a current flows through a circuit then it is called a _____.
k.An Electromagnet is a _____.
l.An electric bell is based on the principle of _____.
m.The alloy used to make the heating element in heating devices is _____.
n.The device used to protect an electric circuit from excess current is called a _____.
o.A fuse wire is an alloy of lead and _____.

Q-2 Choose the correct answer:

1. In making a battery
(a) positive terminal of one cell is connected to the negative terminal of the next cell
(b) positive terminal of one cell is connected to the positive terminal of the next cell
(c) negative terminal of one cell is connected to the negative terminal of the next cell
(d) none of the above

2. Where can the key or switch be placed in the circuit?
(a) Left side of the battery
(b) Right side of the battery
(c) Can be placed anywhere in the circuit
(d) Near the positive terminal of the bulb

3. Which one of the following is based on the heating effect of current?
(a) Geyser (b) Hair dryer (c) Immersion rod. (d) All of these

4. The coil of wire contained in an electric heater is known as
(a) component (b) element. (c) circuit. (d) spring

5. The amount of heat produced in a wire depends on
(a) material. (b) length. (c) thickness. (d) all of these

Q-3 Write the answers of the following Questions-

Q.1.Draw in your notebook the symbols to represent the following components of electrical circuits: connecting wires, switch in the 'OFF' position, bulb, cell, switch in the 'ON' position and battery.

Q.2.Draw the circuit diagram to represent the circuit shown in fig. 14.9.

Q.3.Name any two effects of electric current.

Q.4.When the current is switched on through a wire, a compass needle kept nearby gets deflected from its north-south position. Explain.

Q. 5.Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.