BAL BHARATI PUBLIC SCHOOL

G.R.H.Marg

CLASS VII

G.Science

S.A. II

Assignment No. 13

ELECTRIC CURRENT AND ITS EFFECTS

Q1.Fill in the blanks :

1. A combination of two or more cells is called a _____ .

2. The working of a an electric bulb, electric iron and the fuse is based on the _____ effect of current.

3. The filament of an electric bulb is made of _____ and has _____ (high/low) melting point.

4. Instead of electric bulbs, it is advisable to use _____ and _____ , in order to reduce wastage.

5. _____ is a safety device which prevents fires and damage to electrical Appliances.

6. A current carrying coil wrapped around a piece of iron is called an _____.

7. _____ performed experiments to prove the magnetic effect of current.

8. _____ and _____ are devices which have electromagnets in them.

Q2. Draw the symbols for the following:

a) A cell

d) Switch in ON position

b) A battery e) Switch in OFF position

c) A bulb f) Connecting wires

Q3. Draw a circuit diagram to show how you will connect a battery of three cells toan electric bulb through a switch.

Q4. Choose the correct option:

a) If a circuit is open:

i)the bulb glows ii)the bulb does not glow iii)the bulb flickers iv)none of these

b) Electric bulb converts electrical energy into:

i) sound energy ii) magnetic energy iii) light energy iv) chemical energy

c) Which of the following appliances is based on the magnetic effect of current:

i) electric kettle ii) electric bell iii) electric iron iv) electric oven

d) In an electric bell, which of these gets attracted to the electromagnet?

i) the hammer ii) the soft iron strip iii) the screw iv) none of these

Q5. What happens during a short circuit ? Explain how it can be prevented.

Q6. Anu and her friends visited their neighbourhood and encouraged them to use CFL instead of bulbs. What values do they want to be inculcated?

Q7.Describe an experiment to show:

a) The effect of current on a compass needle.

b) How you can make an electromagnet.

Q8. List any four uses of electromagnets.

Q9. Rohanmade four electromagnets A, B, C, and D with 20, 40, 60 and 80 turns.

He connected them one by one to a battery of two cells and brought them near a box of all-pins. Which electromagnet will attract the maximum pins and why?

Q10. Describe the construction and working of an electric bell.