

Chapter: 4

Q.1 A) Choose the correct alternative and rewrite the sentence (2)

- 1) A combination of two or more electric cells is called
a. Electric circuit b. Battery c. Terminals d. Cells
- 2) is a device which converts chemical energy into electrical energy.
a. Electric bell b. Electric cell c. Electric bulb d. Electric fan

Q.2 B) Solve the following questions. (3)

1) State True or False (1)

- 1) Magnetic field is created when an electric current flows in a wire.

2) Find the odd one out (1)

- 1) Lead, Lead dioxide, Sulphuric acid, Hydrochloric acid

3) Name the following (1)

Any one use of electromagnets in day to day life.

Q.2 Solve the following questions. (Any two) (4)

1) Write Short Notes

Electric cell

- 2) What are the components of an electric circuit?

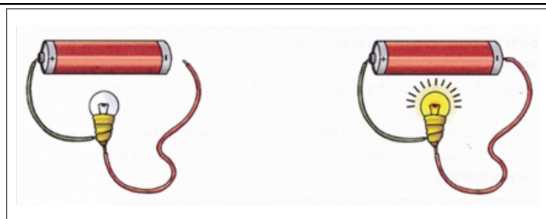
3) Give scientific reasons

The bulb glows in circuit when it is connected to an electric cell.

Q.3 Answer the following in detail (Any TWO) (6)

- 1) Electric cells having 2V potential difference each have been connected in the form of a battery. What will be the total potential difference of the battery in both cases?
- 2) Write proper words from the following group of words in the blanks.
(magnetism, 4.5V, 3.0V, gravitational attraction, potential difference, potential, higher, lower, 0V)
 1. Water in the waterfall flows from a higher level to the lower level because of
 2. In an electric circuit, electrons flow from a point of potential to the point of potential.
 3. The difference between the electrostatic potential of the positive end and the negative end of an electric cell is the of the cell.
 4. Three electric cells of potential difference 1.5 V each have been connected as a battery. The potential difference of the battery will be V.
 5. An electric current flowing in a wire creates around the wire.

3)



- i. Why does not the bulb glow in the first case?
- ii. What will happen to the current if the single cell is replaced by a battery with two cells?
- iii. Some gadgets work with one cell while some require two or more cells. Explain.

Q.4 Solve the following questions. (Any one)

(5)

- 1) Describe the construction, working and usefulness of a dry cell with the help of a diagram.
- 2) Describe the construction and working of an electric bell with the help of a diagram.