

## Std. 8. General Science

Marks : 25

Ch.11 Electric current

Duration : 45 min.

### Q1 Fill in the blanks [3 M ]

1. In simple cell, the glass trough is filled with dilute ----- .  
a. hydrochloric acid    b. sulphuric acid    c. hydrochloric acid
2. Watches especially make use of -----cell.  
a. Dry    b. volta    c. button
3. In the Leclanche cell----- rod acts as the positive rod.  
a. Zinc    b. carbon    c. copper

### Q2 State whether True or False [3 M ]

1. When the circuit is open , the current flows and there is deflection in the needle .
2. The credit for electro – magnetic induction goes to Michael Faraday.
3. An electric current flows through the coil as long as magnet is moving.

### Q3 Find the odd man out and give the reason . [2M ]

1. Rubber, Wood, Plastic, Iron
2. Plastic, Copper, Iron, Aluminium

### Q4 Answer in one sentence [3 M ]

1. What is the direction of the electron current in a dry cell?
2. What is the main advantage of the nickel – cadmium cell ?
3. What is an electrical insulator ? Give two examples.

### Q5 Give scientific reasons . ( Any Two ) [4 M ]

1. Electrical switches are made of plastic
2. The copper wire used in an electromagnet is insulated.
3. In an electric bell, the electric current stops again and again.

### Q6 Answer any TWO of the following. [4 M ]

1. What will happen if there is no key in a circuit?
2. What is the principle of the electric motor.
3. Describe the construction of the Leclanche cell.

**Q 7 With a neat and labeled diagram, describe any TWO experiment from the following. [6M]**

1. Explain the working of the simple electric cell.
2. Describe the construction of a dry cell.
3. Describe a simple experiment to show that an electric current produces a magnetic field.
4. Describe the basic experiment related to electromagnetic induction.
5. Explain how a simple electromagnet can be made.

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