

Name: _____ Date: _____

Electric Current and its Effects

Q1. State True (T) or False (F).

- i. To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell. _____
- ii. When the electric current through the fuse exceeds a certain limit, the fuse wire melts and breaks. _____
- iii. An electromagnet does not attract a piece of iron. _____
- iv. An electric bell has an electromagnet. _____

Q2. Fill in the blanks.

- i. Longer line in the symbol for a cell represents its _____ terminal.
- ii. The combination of two or more cells is called a _____.
- iii. When current is switched 'on' in a room heater, it _____.
- iv. The safety device based on the heating effect of electric current is called a _____.

Q3. What is electric current?

Ans. _____

Q4. Why does light bulb get hot?

Ans. _____

Q5. Who discovered magnetic effect of current?

Ans. _____

Q6. How does a bulb glow?

Ans. _____

Electric Current and its Effects

Q1. State True (T) or False (F).

- i. To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell. **False**
- ii. When the electric current through the fuse exceeds a certain limit, the fuse wire melts and breaks. **True**
- iii. An electromagnet does not attract a piece of iron. **False**
- iv. An electric bell has an electromagnet. **True**

Q2. Fill in the blanks.

- i. Longer line in the symbol for a cell represents its **positive** terminal.
- ii. The combination of two or more cells is called a **battery**.
- iii. When current is switched 'on' in a room heater, it **produces heat**.
- iv. The safety device based on the heating effect of electric current is called a **fuse**.

Q3. What is electric current?

Ans. Electric current is flow of electrons.

Q4. Why does light bulb get hot?

Ans. Light bulb gets hot due to heating effect of the electric current.

Q5. Who discovered magnetic effect of current?

Ans. Hans Christian Oersted discovered magnetic effect of current.

Q6. How does a bulb glow?

Ans. In the bulb there is a thin wire, called the filament, which glows and gives off light when an electric current passes through it.