

Name: _____ Date: _____

Electric Current and its Effects

Q1. An electric bulb results in wastage of electricity. Comment

Ans. _____

Q2. What is the use of electrical fuse?

Ans. _____

Q3. What are the uses of electromagnets?

Ans. _____

Electric Current and its Effects

Q1. An electric bulb results in wastage of electricity. Comment

Ans. An electric bulb is used for light but it also gives heat. This is not desirable. This results in the wastage of electricity. This wastage can be reduced by using fluorescent tube lights in place of the bulbs. Compact fluorescent lamps (CFLs) also reduce wastage and can be fixed in the ordinary bulb holders.

Q2. What is the use of electrical fuse?

Ans. In all buildings fuses are inserted in all electrical circuits. There is a maximum limit on the current which can safely flow through a circuit. If by accident the current exceeds this safe limit, the wires may become overheated and may cause fire. If a proper fuse is there in the circuit, it will blow off and break the circuit. A fuse is thus a safety device which prevents damages to electrical circuits and possible fires.

Q3. What are the uses of electromagnets?

Ans. The electromagnets can be made very strong and can lift very heavy loads. The end of such a crane has a strong electromagnet attached to it. The electromagnets are also used to separate magnetic material from the junk. Doctors use tiny electromagnets to take out small pieces of magnetic material that have accidentally fallen in the eye. Many toys also have electromagnets inside them. Electromagnets are also used in electric bells.