

Chapter `15- Chemical Effects of Electric Current

HOTS Questions:

1. LED uses less electrical energy.
2. Mercury is a metal which is liquid at room temperature. It consists of mercury atoms and no ions are present. Hence it is not an electrolyte.
3. Solid copper sulphate does not contain any free electrons or ions to conduct electricity. When it is dissolved in water it breaks up into ions that can conduct electricity.
4. Yes, I agree with this statement that copper conducts electricity through electrons, whereas salt solution conducts electricity through ions.
5. As water is a good conductor of electricity we should not touch electrical appliances with wet hands. Our body may get electric shock.
6. If after electroplating a spoon with copper, the connections of the copper plate and the spoon are interchanged, the copper deposited on the spoon will start disappearing and going into solution.
7. Putting out a fire in an electrical appliance by pouring water on it can be dangerous as water conducts electricity and people who come in contact with the water can get electric shocks.
8. Chromium is very expensive. So, the objects like car parts, taps, cycle parts, etc. will not be affordable if made of chromium entirely.