

St. Andrews Scots School

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I.P. Extension, Patparganj, Delhi – 110092
Session: 2025-2026 - Worksheet

Class: VIII Subject: Science Chapter: Chemical Effects of Electric Current

Q.1. State whether the following statements are True or False:

- a. A battery is a storehouse of chemical energy.
- b. Each dry cell has one electrode.
- c. A substance that conducts electricity in solid form is called an electrolyte.
- d. Production of hydrogen gas from water is a chemical effect of electric current.
- e. One can dissociate sodium chloride into sodium and chlorine by magnetic effect of electric current.

Q.2. Fill in the blanks:

- a. An object to be coated or polished has to be connected to the _____ terminal of the battery.
- b. Coating of metals coins is a very common example of _____ technique.
- c. Current passing through copper sulphate solution _____ of the solution.
- d. In a commercial electroplating unit, the metal piece is immersed in a temperature controlled _____.

Q.3. Choose the correct answer:

- Q.1. Which device produces light by flow of even small amount of current?
 - a. Bulb b. Tube light c. LASER d. LED
- 2. In a copper sulphate solution used for electroplating, which metal will be coated on an object connected to negative terminal of the battery?
 - a. Brass b. Copper c. Sulphur d. Chromium
- 3. Which of the following is the best conductor?
 - a. Distilled water b. Glass c. Silver d. Toothpaste
- 4. Adding acids, bases or salts to a solvent like distilled water makes it _____.
 - a. conducting b. shiny c. pure d. insulating

Q.4. Answer in one word:

- a. What do we call the materials which allow the current to pass through them?
- b. Name a device that produces electricity by chemical reaction.
- c. Which terminal is represented by the longer lead of LEAD?
- d. Name the technique used for gold coating in the artificial jewellery.
- e. Who discovered the phenomenon of electrolysis?

Q.5. Answer the following questions:

- a. Why is it not safe for an electrician to carry out electrical repairs in the outdoor areas during heavy downpour?
- b. A child finds that the bulb glows more brightly in case of sea water than the drinking water with his tester. Give reasons.
- c. After doing activity of electroplating of an iron strip, a student interchanged the connections of the electrodes. What do you think will happen?
- d. Why some liquids can conduct electricity while some cannot?
- e. Why is a layer of zinc coated over iron?