

## Chemistry (New Book) - 9th Class Chemistry English Medium Chapter 7 Preparation

Q1. Define Electroplating?

**Ans 1:** Electroplating is depositing of one metal over the other by means of electrolysis.

Q2. What is meant by salt bridge?

**Ans 1:** Salt bridge is a U-shape and glass tube .  
It consists of saturated solution of strong electrolyte supported in jelly type material

Q3. What is spontaneous reactions.

**Ans 1:** Spontaneous reactions are those which take place on their own without any external agent

Q4. Which ions are discharged at cathode in Nelson's cell and what is produced at cathode?

**Ans 1:** The  $H^+$  ions are discharge at cathode in nelson's cell . At cathode sodium hydroxide and hydrogen are produced.

Q5. Difference between Cation and Anion?

**Ans 1:** Cations and anions are both ions. The difference between a cation and an anion is the net electrical charge of the ion.  
Cation examples are silver ( $Ag^+$ ), hydronium ( $H_3O^+$ ) and examples of anion are hydroxide anion ( $OH^-$ ) etc

Q6. State the best method for protection of metal from corrosion.

**Ans 1:** The best method for protection against the corrosion of metals exposed to acidic conditions is coating the metal with other metal. Corrosion resistant metals like Zn, Sn and Cr are coated on the surface of iron to protect it from corrosion.

Q7. Which material is used to make cathode in electroplating?

**Ans 1:** The cathode is made of the objects that is to be electroplated e.g. sheet of iron.

Q8. Why steel is plated with nickel before the electroplating of chromium?

**Ans 1:** The steel is usually plated first with nickel on copper and then by chromium because it does not adhere well on the steel surface, Moreover, it allows moisture to pass through it and metal is striped off. The nickel or copper provides adhesion and then chromium deposited over the adhesive layer of copper lasts longer. This type of electroplating resists corrosion and gives a bright

silvery appearance to the object.

---

Q9. Difference between Cathode and Anode?

**Ans 1:** Cathode:

The electrode connected to negative terminal of battery is called Cathode

**Ans 2:** Anode:

The electrode connected to positive terminal of battery is called anode.

---

Q10. What is redox reaction?

**Ans 1:** The reaction in which simultaneously oxidation and reduction takes place is called redox reaction.

---