Electrolysis

- **1. Electrolytes:** These are the substances which allow the electricity to pass through them in their molten states or in the form of their aqueous solution and undergo chemical decomposition. Examples— acids, bases & salts.
- **2. Strong electrolytes :** The electrolytes which are almost completely dissociated into ions in solution are called strong electrolytes. Example— NaCl, KCl, HCl, NaOH etc.
- **3. Weak electrolytes:** The electrolytes which do not ionise comp etely n solution are called weak electrolytes. Example—CH3COOH, H2C 3, HCN ZnCl2, NH4OH etc.
- **4. Electrolysis :** The process of chemical decomposit on f an ele rolyte by passage of electric current through its molten state o its so tion is called electrolysis.
- **5. Electrodes**: In order to pass the current throug an ectrolytes in molten state or in aqueous solution, two rods or periode to connect with the terminal of a battery. These rods or ples ecalled electrodes.

Anode: The electrode which is attach d to positive terminal of battery is called anode. Oxidation occurs at an

Cathode: The electrode w ch is atta hed to negative terminal of batteries is called, Reduction occurs at ca hode.

Examples— Electr ysis of m Iten NaCl

At anode : $CI--e \rightarrow CI$

CI + CI CI2

At catho e: Na + e \rightarrow Na

So, Cl2 gas oc urs at anode while Na at cathode.