

Chapter 3

METALS AND NON-METALS

Corrosion:

- The deterioration (decomposition) of a metal by interacting with the compounds present in surroundings is called as corrosion.

Ex; Blackening of Silver (Due to formation Ag_2S)

Green coating on Copper (Due to formation of



Rusting of iron (Due to formation of $Fe_2O_3.xH_2O$)

Prevention of Corrosion:

- Corrosion can be prevented by painting, oiling, greasing, galvanizing, chrome plating or making alloys.
- Galvanization is the process of coating the surface of iron metal by a thin layer of zinc metal.
- Alloy is a homogenous mixture of two or more metals or a metal and Non-metal.

Ex:

Brass (Alloy of Cu and Zn).

Bronze (Alloy of Cu and Sn).

Solder (Alloy of Pb and Sn).

Alloy of a metal with mercury is called as Amalgam.

Ex: Zn – Hg (Zinc amalgam)

