

Chapter 3

METALS AND NON-METALS

Extraction of metals:

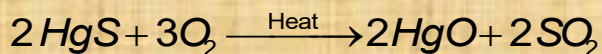
- In nature most of the elements are available in combined state. The compound form of the metal available in nature is called as Mineral.
- But out of the minerals only few of them are viable for extraction of metals. They are called as ores.

Extraction of metals low in activity series:

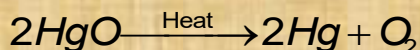
- The metals with low activity in series like Cu, Ag, Au and Pt are found in free state.
- Copper and silver are also found in the combined state in the form of oxides and sulphides.
- Cinnabar (HgS) is the sulphide are of Mercury.
- When HgS(Cinnabar) is heated in air it turns into its oxide. It is called roasting.

Roasting :

- The process of heating of a ore just below its melting point in presence of air is called as roasting.



- Later HgO gets decomposes into *Hg* and O_2



Extraction of Copper :

- Copper is extracted from Cu_2S by heating it in air

