

CHEMISTRY

STD - 8
class - 20

2/11/2020
MONDAY

Notes

- Metals :- Heat conductivity, electrical conductivity, metallic lustre etc. are some of the physical properties of metals. Metals are also electropositive elements. In chemical reactions they release electrons and become positive ions.

- Minerals :- The metallic compounds found in nature are minerals. Elements or their compounds occurring naturally are obtained by mining are called minerals.

eg: Aluminium (Al) : Bauxite ($\text{Al}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$), clay ($\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$),
cryolite (Na_3AlF_6)

Iron (Fe) : Haematite (Fe_2O_3), Magnetite (Fe_3O_4),
Iron pyrites (FeS)

Sodium (Na) : Rock salt (NaCl)

- Ore :- A mineral from which a metal is economically, easily and quickly extracted is called the ore of the metal.

- Characteristics of ore

- Abundance
- High metal content
- Easily separable
- Extraction should be less expensive.

- Which metal's ore is calamine? Zinc

- Which is the ore of aluminium? Bauxite

- Which metal have sulphide ores? zinc, copper

- Metallurgy :- Metallurgy involves all the process leading to the separation of pure metal from its ore.