

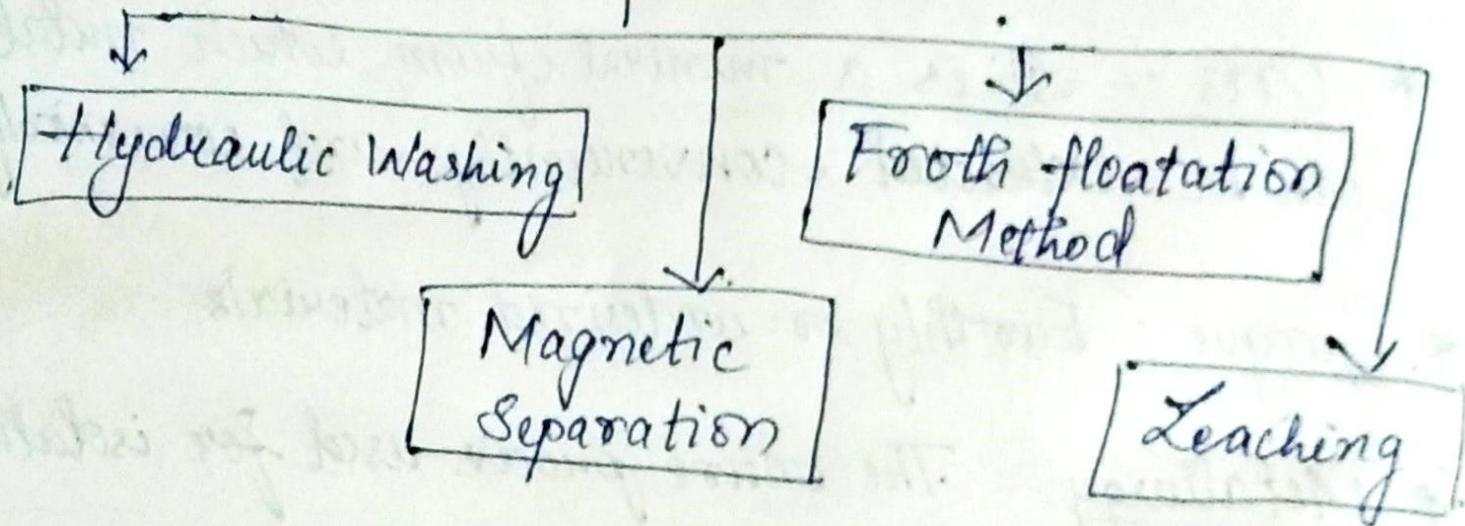
## Concepts

- \* Minerals :- Naturally occurring chemical substances in the earth's crust.
- \* Ores :- It is a mineral from which metal can be extracted conveniently and economically.
- \* Gangue :- Earthly or undesired materials.
- \* Metallurgy :- The entire process used for isolation of the metal from its ore.  
The following metal ~~ores~~ ores are given:-
  - \* Aluminium — Bauxite
  - \* Zinc — Zinc Blende, Calamine, Zinute.
  - \* Copper — Copper pyrites, Malachite, Cuprite, Copper glance.
  - \* Iron — Haematite, Magnetite, Siderite, Iron pyrites.

\* Isolation of metals from its ore involve 3 steps:-

- ① Concentration of the ore
- ② Isolation of the metal from the concentrated ore.
- ③ Purification of the metal.

① Concentration of the ore



② Extraction of metal from its concentrated ore.

