



CHEMISTRY

CH: 6 GENERAL PRINCIPLES & PROCESSES OF ISOLATION OF ELEMENTS

Class: XII

I

Answer the following

1. What is slag?
2. Why is pine oil generally added in the froth floatation process?
3. What is the role of graphite rods in electrometallurgy of aluminium ?
4. What is the role of cryolite in electrometallurgy of aluminium?
5. Give names and formulae of major ores of iron, copper and zinc.
6. Write the principle of electro-refining
7. Describe the method of refining of Zirconium and Titanium
8. Why copper matte is put in silica lined converter?
9. Why is reduction of metal oxide easier if metal formed is in liquid state at temperature of reduction ?
10. Explain the following:-
 - (i) Zinc but not copper is used for recovery of Ag from the complex $[\text{Ag}(\text{CN})_2]^-$.
 - (ii) Partial roasting of sulphide ore is done in the metallurgy of copper.
 - (iii) Extraction of Cu from pyrites is difficult than that from its oxide ore through reduction
 - (iv) Role of silica in the extraction of copper from copper matte.
11. Explain the method for obtaining pig iron from magnetite.
12. Describe the principles of extraction of Zinc from zinc blende
13. Name the principal ore of aluminium and describe how Al is extracted from its ore.
14. Describe the principles of extraction of copper from its ore
15. What is the role of limestone in the extraction of iron from its oxides?