

Quadrant I – Notes

Programme: Bachelor of Science (Third Year)

Subject: Chemistry

Paper Code: CHC - 109

Paper Title: Inorganic chemistry (Section A)

Unit: Acids, Bases and Non –aqueous Solvents

Module Name: Lux- Flood Solvent systems concept

Module No: 15

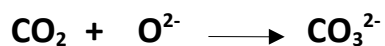
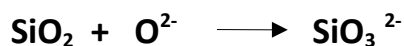
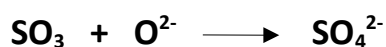
Name of the Presenter: Dr. Pritam S. Patil

- This concept is given by Lux in 1929, and extended by Flood in 1947.
- Lux Flood concept is based on oxide ion acceptor – donor concept.

According to this theory,

Acid is an oxide ion acceptor

Eg. SiO_2 , CO_2 , P_4O_{10}

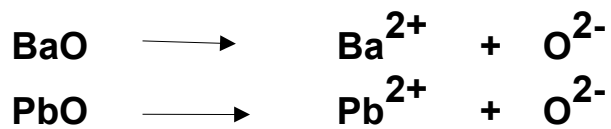


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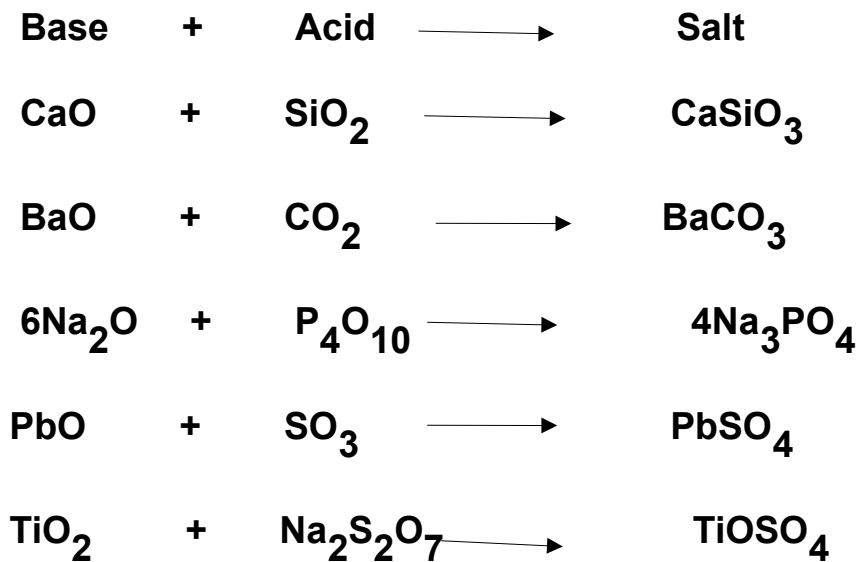
Base is an oxide ion donor

Eg. CaO , BaO , PbO





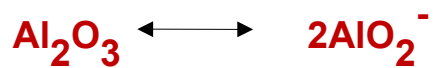
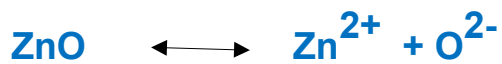
Acid –base reactions in terms of Lux- Flood concept



Amphoteric substances are those which show a tendency to lose and gain an oxide ion.



(Amphoteric)



(Amphoteric)



This concept is u

