

DOUBLE SALTS

1. What do you mean by double salts?

Ans: A double salt is formed when 2 salts crystallizes out together in a simple molecular proportion with fixed no. of water of crystallization

2. Are double salts ionic or covalent in nature?

Ans: ionic

3. Give two example of double salts

Ans: Alum, carnallite

4. What do you mean by water of crystallization?

Ans: A hydrated crystal contain a definite no. of molecules of water combined with each molecule of compound

5. Whether Prussian blue is double salt or not?

Ans: no

CHEMICAL KINETICS

1. Give a reaction which occur very fast and very slow

Ans: Fast-neutralization reaction, slow reaction-corrosion reaction

2. What is a complex reaction

Ans: A reaction involving more than one step

3. What is unit of zero and first order reaction

Ans: Zero order- $\text{molL}^{-1}\text{s}^{-1}$ First order- s^{-1}

4. Why certain reactions are fast or slow?

Ans: The rate of reaction depends on activation energy

5. What is hypo?

Ans: Hypo means sodium thiosulphate i.e. $\text{Na}_2\text{S}_2\text{O}_3$

COLLOIDS

1. Are colloids homogenous or heterogenous mixtures?
Ans: They appear to be homogenous but are heterogenous mixtures
2. Name 2 reversible colloids .
Ans: Gum sol and starch sol
3. What are intrinsic colloids ?
Ans: A substance whose colloidal solution cannot be prepared by just mixing it with the solvent i.e. special methods are required
4. What is difference b/w a sol and an emulsion?
Ans: Sol is that colloid of solid in liquid while emulsion is a colloid of liquid in liquid
5. Name the emulsifying agent in milk .
Ans: Protein –casein

DETECTION OF FUNCTIONAL GROUPS

1. Give the IUPAC name of iodoform .
Ans: Tri-iodomethane
2. What is the colour of pure aniline?
Ans: Pure aniline is yellow but turns red –brown on exposure of light
3. Name the chemical test for detecting unsaturation?
Ans: Bromine test and baeyer's reagent test
4. What type amines give azo dye test?
Ans: Primary aromatic amines
5. How nitrous acid is prepared ?
Ans: By heating dil.HCl with sodium nitrite solution below five degree Celsius.