

Chemistry - 10th Class Chemistry English Medium Chapter 10 Preparation

Q1. How many water of crystallization are present in?

Ans 1: CuSO4.5H20:

It has five water of crystallization

Ans 2: CaSO4.2H2O:

It has two water of crystallization

Q2. What are complex salts?

Ans 1: These salts on dissociation provides a simple cation and a complex anion or vice versa. Only simple ions yields the characteristics test for cation or anion e.g

 $K_4 \{Fe(CN)_6\} \rightarrow 4K^{+1} + \{Fe(CN)_6\}^{-4}$

Q3. How many water of crystallization are present in?

Ans 1: CuSO4.5H2O. It has five water of crystallization. CaSO4.2H2O It has two water of crystallization.

Q4. Why BF₃ behave as a Lewis acid?

Ans 1:

The central atom in BF_3 has only six electrons around it . In order to complete its valence shell it needs two or more electrons . So it can accept electron pair and act as Lewis acid

Q5. Give Uses of Sulphuric acid.

Ans 1: 1. Sulphuric acid is used to manufacture the fertilizers e.g. ammonium sulphate, calcium superphosphates. 2. It is uses in explosive materials. 3. They are used in dyes and paints. 4.sulphuric acid used in the preparation of drugs.

Q6. State and explain the neutralization reaction according to Lewis concept.

Ans 1: According to Lewis concept neutralization reaction occurs by accepting the lone pair by an acid donated by Lewis base.

Q7. Name the type of salts?

Ans 1: I. Normal/neutral salts. 2.Acidic salts 3.Basic salts 4.Double salts. 5.Mixed salts 6.Complex salts.

Q8. What are complex salts.

Ans 1: These salts on dissociation provides a simple cation and a complex anion or vice versa only simple ions yields the characteristics test for cation or anions.

Q9. How basic salts turns into normal salts?

Ans 1: Basic salts are turn into normal salts by further reaction with acids

Ans 2: Reaction:

 $AI(OH)CI_2 + HCL \rightarrow AIcI_3 + H_2O$

(basic salt) (Neutral salt)

Q10. Give uses of sulphuric acid

Ans 1: 1: Sulphuric acid is used to manufacture the fertilizers e.g ammonium sulphate, calcium superphosphates

Ans 2: 2: It is used in explosive materials

Ans 3: 3: They are used in dyes and paints

Ans 4: 4: Sulphuric acid used in the preparation of drugs