

Chemistry - 10th Class Chemistry English Medium Chapter 10 Preparation

Q1. Define and give the characteristics of a Lewis acid.

Ans 1: The substance which can accept the lone pair is called Lewis acid. Characteristics. Incomplete octet: The molecules in which central atom has the incomplete octet e.g. BF_3 , AlCl_3 , FeCl_3

Q2. Name the gas liberated when alkalis react with ammonium salt

Ans 1: When alkalis react with ammonia gas is evolved

Ans 2: Equation:



Q3. Define preservatives in food

Ans 1: Chemicals used to prevent food spoilage are called preservatives. Food spoiling may be due to microbial actions or chemical reaction. So preservatives serve as either anti-microbial or antioxidants or both

1: Manufacturers add preservatives mostly to prevent spoiling during transportation and storage of foods for a period of time

Ans 2: 2: Natural food preservatives are salts, sugar, alcohol, vinegar etc. They efficiently control the growth of bacteria in food. They are used to preserve meat, fish etc

Q4. Name the salts which are formed when Zn metal reacts with nitric acid, phosphoric and acetic acid?

Ans 1: 1: With nitric acid:

When Zn reacts with nitric acid it will produce zinc nitrate $\text{Zn}(\text{NO}_3)_2$

2: With phosphoric acid: When zinc reacts with phosphoric acid then zinc phosphate $\text{Zn}_3(\text{PO}_4)_2$ is produced

Ans 2: 3: Acetic acid: When zinc reacts with acetic acid then zinc acetate is formed $\text{Zn}(\text{CH}_3\text{COOH})_2$

Q5. Name an alkali used in alkaline batteries.

Ans 1: potassium hydroxide is used in alkaline batteries.

Q6. 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

Q7. What type of reaction takes place when acid react with metal and what product is formed ?

Ans 1: When acid react with metal then hydrogen gas is produced in addition to a salt . The name of the reaction is 'Direct displacement reaction '

Ans 2: Reaction : $2\text{HCL} + \text{Mg} \rightarrow \text{MgCl}_2 + \text{H}_2\uparrow$

Q8. How can you justify that NH_3 is bronsted Lowry base but not Arrhenius base ?

Ans 1: NH_3 is bronsted-lowry base as it has the ability to accept the proton but not the ability to accept the proton but not a arrhenius base because it can tot give out hydroxyl ion on dissociation
e.g: $\text{NH}_3 + \text{H}_2\text{O} \rightarrow \text{NH}_4^+ + \text{OH}^-$

Q9. Name the type of salts?

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

Q10. Name an alkali in alkaline batteries

Ans 1: Potassium hydroxide (KOH) is used in alkaline batteries
