

## Chemistry - 12th Class Chemistry Chapter 13 Short Questions Preparation

Q1. What is Zwitter ion?

**Ans 1:** The amino acid exist as dipolar ion called Zwitter ion,It has positive as well as negative ends within the same molecule.In the formation of Zwitter ion,the proton goes from the carboxylic group to amino group.

Q2. What are Fatty acids?

**Ans 1:** The aliphatic monocarboxylic acids are commonly called fatty acids because higher member of this series such as palmitic acid stearic acid etc.obtained by the hydrolysis of fats or oils.

Q3. Which ester gives banana and orange smell?

**Ans 1:** Amylacetate gives banana while octyl acetate gives orange smell.

Q4. What happened when ammonium acetate is heated?

**Ans 1:** When ammonium acetate is heated it produce acid amide.

Q5. Give four used of acetic acid?

**Ans 1:** Acetic acid is used:

- 1.as a coagulant for latex in rubber industry.
- 2.in the manufacturing of plastic rayon and silk.
- 3.in medicine as a local irritant.
- 4.in the manufacturing of pickles.

Q6. What is meant by Polypeptide and protein?

**Ans 1:** The formation of peptide bonds can continue until a molecule containing a several hundred thousand amino acid is formed,Such a molecule is called polyptide or protein.By convention a peptide having molecule is called a polypeptide which peptide having molecular mass more than 10,000 is called protein.

Q7. Write down the name of two ester having the following flavours:

1 Pineapple 2.jasmine

**Ans 1:** 1.Pineapple flavour is produced by Ethyl butyrate.  
2.Jasmine Flavour is produced by Benzylacetate.

Q8. Give trend of solubility of carboxylic acids in water?

**Ans 1:** Among the aliphatic acids, the first four members are very soluble in water due to hydrogen bonding. The solubility in water gradually decreases with the increase in molecular mass.

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Q9. What are amino acids?

**Ans 1:** Amino acids are organic compounds containing both amino and carboxylic groups.

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Q10. Manipulate the term 'Esterification' using alcohol.

**Ans 1:** When carboxylic acids are heated in the presence of concentrated sulphuric acid, esters are formed. This process is called esterification.

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