

Chemistry - 12th Class Chemistry Chapter 13 Short Questions Preparation

Q1. Which ester gives banana and orange smell?

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

Q2. What is peptide bond?

Ans 1: The formation of peptide bonds can continue until a molecule containing several hundred thousand amino acids is formed. Such a molecule is called polypeptide or protein.

Q3. 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.

Q4. Write down formula of palmitic and stearic acid.

Ans 1: Formula of palmitic is: $C_{15}H_{31}COOH$
Formula of stearic acid is: $C_{17}H_{35}COOH$

Q5. Differentiate between acidic and basic amino acids?

Ans 1: The amino acids which contain two carboxyl group are called acidic acids, while those containing two amino groups are called basic acids while lysine is a basic amino acid.

Q6. Manipulate the term 'Esterification' using alcohol.

Ans 1: When carboxylic acids are heated in the presence of concentrated sulphuric acid ester are formed this process is called esterification process.

Q7. What are amino acids?

Ans 1: Amino acids are organic compound containing both amino and carboxylic group.

Q8. What are acidic amino acids?

Ans 1: The amino acids which contain two carboxyl group are called acidic amino acids.

Q9. What are carbocyclic compound

Ans 1: Organic compound containing (-COOH) as a functional group are called carboxylic compound.

Q10. What happens when following are heated?

1. Sodium Formate and soda lime
2. Sodium acetate and soda lime

Ans 1: 1. When sodium formate is heated with soda lime, it decomposes to give sodium carbonate and hydrogen.
2. When sodium acetate is heated with soda lime, it decomposes to give sodium carbonate and methane.
