

Chemistry - 10th Class Chemistry English Medium Chapter 13 Preparation

Q1. Who discovered the DNA ' structure?

Ans 1: Its structure was discovered by J. Watson and F.Crick in 1953.

Q2. Give any two properties of oligosaccharide?

Ans 1: Oligosaccharides are also sweet in taste. These carbohydrates are white , crystalline, solids easily soluble in water.

Q3. What is the function of DNA ?

Ans 1: DNA is the permanent storage place for genetic information in the nucleus of a cell . It carries and stores all genetic information of the all . It passes these information's from generations to generations . How to synthesize particular proteins from amino acids . These instructions are genetic code of life they determine whether organism is a man or a tree or a donkey and whether a cell is a nerve cell or a muscle cell

Q4. How margarine is produced?

Ans 1: Margarine is produced by adding hydrogen to vegetable oil at 200 oC in the presence of catalyst.The greater the amount of hydrogen used the move solid the margin become.

Q5. What is Nucleic acid.

Ans 1: Nucleic acids are essential components of every living cell. They are generally long chain molecules made up of nucleotides.Each nucleotide consists of three components nitrogenous base, a pentose . sugar adn a phosphate group.

Q6. Describe the hydrogenation of vegetable oil

Ans 1: Vegetables oil are triester of glycerol and fatty acids of unsaturated long chains . These oils are hydrogenated in the presence of nickel catalyst at 250 to 300 C to form vegetable ghee

Ans 2: vegetable oil + H₂ → vegetable ghee (unsaturated oil) (saturated triester)

Q7. Give two properties of monosaccharides.

Ans 1: 1. Monosaccharides are white crystalline solids 2.They are soluble in water and have sweet taste.

Q8. What is lipids 7 fatty acid.

Ans 1: Lipids are macromolecules made up of fatty acids.

Q9. Give any two uses of protein .

Ans 1: 1: Hides are proteins . These are used to make leather by tanning . Leather is used to make shoes , jackets etc
2: Plants also synthesize proteins such as pulse etc . These are used as food

Q10. What is Glucose:

Ans 1: Glucose is a polyhydroxy aldehyde while fructose is pentahydroxy ketone having the open chain structures as follows and general formula of $C_6H_{12}O_6$
