

## Chemistry - 10th Class Chemistry English Medium Chapter 13 Preparation

Q1. Who discovered the DNAs structure ?

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

Q2. 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.

Q3. Give two uses of carbohydrates.

**Ans 1:** The provide essential nutrients for bacteria in intestinal helps indigestion. They regulate the amount of sugar level in our body .Low sugar level in body result in hypoglycemia.

Q4. Uses of proteins.

**Ans 1:** i. Enzymes are proteins that are produced by the living cells. They catalyze the chemical reactions taking place in the bodies . They are highly specific and have extraordinary efficiency. Many enzymes are used as drugs they control the bleeding and treat blood cancer. ii. Hides are proteins. These ae used to make leather by tanning. Leather is used to make shoes. Jackets, Sports , items. ect. iii. Proteins are found in bones. When bones are heated the give gelatin is used to make bakery items. iv. Plants also synthesize proteins. such as pulses, beans, etc, these are used as food.

Q5. Give any two properties of polysaccharide?

**Ans 1:** i. They are amorphous solids 2. they are trasteless and insoluble in water.

Q6. 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

Q7. What is the cause of rancid butter?

**Ans 1:** Rancid butter has a foul smell because of butanoic acid . However the ester of botanic acid have fruity smell  
Example methyl butanoate smells like apple and ethyl butanoate smell like pineapple

Q8. Define lipids

**Ans 1:** Lipids are macromolecules made up of fatty acids . Lipids include oil and fats

---

Q9. What are carbohydrates.

**Ans 1:** Carbohydrates are macromolecules defined as polyhydroxy aldehydes or ketones. General formula: They have general formula  $C_n(H_2O)_n$ .

---

Q10. What are components of nucleotide ?

**Ans 1:** Each nucleotide consists of three components , nitrogenous base , a pentose sugar and a phosphate group

---