

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

Q1. What types of carbohydrates?

**Ans 1:** a. Monosacchrides b. OLIGOSACCHARIDES C. pOLYSACCHARIDES.

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 are the element found in proteins?

**Ans 1:** Proteins consist of carbon, hydrogen, oxygen , nitrogen and sulphur. They are polymers of amino acids.

Q4.

What type of carbohydrates ?

**Ans 1:** Carbohydrates are classified as

1: Monosaccharides

2: Oilgosaccharides

3: Polysaccharides

Q5. 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 + H<sub>2</sub> → vegetable ghee (unsaturated oil) (saturated triester)

Q6. Why we use dextrose in drip ?

**Ans 1:** Dextrose is crystallized glucose (natural sugar found in starchy foods ) . It provides simple carbohydrates to the body that can be easily broken down and processed . Dextrose solution is available in several concentrations .

**Ans 2:** Example : 5 percent dextrose solution (D5W) consists of 5 grams of dextrose in each 100 ml of solution . It is used to provide fluid replacement and energy to the body . It contains approximately 170 calories of energy but does not contain electrolytes . Therefore electrolytes are added according to requirements in solution . Dextrose is given to patients directly into vein called intravenous (IV) therapy . It is commonly called drip system . It is faster way to deliver fluids , electrolytes and medications throughout the body . It prevents air entering into blood stream

Q7. 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

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Q8. Give two uses of carbohydrates.

**Ans 1:** They 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.

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Q9. 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

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Q10. Who discovered the DNAs structure ?

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

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