

Chemistry - 10th Class Chemistry English Medium Chapter 13 Preparation

Q1. Define polysaccharides give example.

Ans 1: Polysaccharides are macromolecular carbohydrates consisting of hundreds to thousands of monosaccharides

Example : Starch and cellulose

Q2. 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

Q3.

What type of carbohydrates ?

Ans 1: Carbohydrates are classified as

1: Monosaccharides

2: Oligosaccharides

3: Polysaccharides

Q4. Give two properties of monosaccharides.

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

Q5.

Give any two importance of vitamins?

Ans 1: Each vitamin plays an important role in the healthy development of our body

Vitamins cannot be assimilated without ingesting food . This is why , it suggested that vitamin must be taken with meal . They help to regulate our body's metabolism

Q6. What is Fatty acids with examples:

Ans 1: Fatty acids are building blocks of lipids. Example:they are long chain saturated or unsaturated carboxylic acids.

Q7. Define proteins .

Ans 1: Proteins are highly complicated nitrogenous compounds made up of amino acid

Q8. Give any two properties of polysaccharides /

Ans 1: They are amorphous solids
They are tasteless and insoluble in water

Q9. 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 are used to make leather by tanning. Leather is used to make shoes, jackets, sports items, etc. iii. Proteins are found in bones. When bones are heated the gelatin is used to make bakery items. iv. Plants also synthesize proteins such as pulses, beans, etc, these are used as food.

Q10. 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 a faster way to deliver fluids, electrolytes and medications throughout the body. It prevents air entering into blood stream
