

Biology (New Book) - 9th Class Biology Urdu Medium Chapter 6 Preparation

Q1.	Compare	the energy	level of	carbohydrates,	Proteins and lipids.
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Ans 1: Proterins:

- 1) One grams of protein has 4 Kcal of energy
- 2) Proteins can also be use dfor gaining energy

Ans 2: Lipds:

One gram of lipids provides 9.1 Kcal energy which is double than carbohydates or proteins. Lipids act as energy storage in fat, cells, liver and blood.

Ans 3: Carbohydrates:

4 Kcal per grma of energy is released when glucose is broken down in the cell Carbohydrages ar emajor souce of useable and stored energy in the cells of living organisms.

Q2. What are differente plant sources of proteins.

Ans 1: Plant seeds are most common source of proteins like beans, lentils, peas, nuts.

Q3. Which monosaccharides make a sucrose molecules.

Ans 1: Sucrose is made of two monosaccharides i.e. glucose and fructose.

Q4. Difference between glycine and Alanine

Ans 1: Glycine:

i. It is an amino acid in which R group is H

Ans 2: Alanine:

It is an amino acid in which the R group is CH3

Q5. Briefly describe the function of DNA.

Ans 1: Dna contains the hereditary information. This information is in the form of a sequence determines the order of amino acids drig protein synthesis. The segment of DNA in which the sequence . The segment of DNA in which the sequence fo nucleotides determines the synthesis of a proteins is called a gene. During reproduction, DNA is passed from one generation to the next, In this way, DNA carries the heredity information to the ext generation.

Q6. Difference between Monosaccharides and Disaccharides.

Ans 1: Monosaccharides:

Monosaccharides are made of single sugar molecue. They are easily soluble in water and have sweet taste. They may have 3 to 7 carbon atoms. Pentoses (5C) and hexoses (6C)

Ans 2: Example: Ribose and deoxyribose pentoses

Gluose, fructose, and galactose and hexoses

Ans 3: Disaccharides.:

They are made of two monosaccharides untis. they are less soluble in wate rand are less sweet in taste.

Example:

Sucrose is made of two monosaccharides i.e. Glucose and fuctose.

Maltose is made of two glucose moleucles.

Q7. Give and example of storage polysaccharide in plants.

Ans 1: Starch is a storage polysaccharide found in plants. It is composed of glucose untis.

Q8. Structure of DNA and RNA

Ans 1: DNA: DNA is made of deoxyribo nucleotides oxy-ribo nucleotides.

In this nucleotide the pentose sugar is deoxyribose while nitrogenous base may be adenine a. thymine (T), cytosine (C) or guanine (G)

Ans 2: Structure of RNA:

RNA is signle stranded its strand consists of ribonucleotides.

A ribonucleotide contins ribose sugar instead of deoxyribose. Ina ribonucleotide, the nitrogenous base may be adenind a. Uracil (U) cytosin (C) or guanine (G)

Q9. How do the three groups of carbohydrates differ in taste.

Ans 1: Monosaccharides hae swee taste, disaccharides are less sweet in taste while polysacharides are tasteless. There fore the sweetness decreases as the complexity of carbohydrates increses

Q10. Difference between Glycogen and Starch

Ans 1: Glycogen:

Glycogen is the animal starch mainly stored n liver and muscles.

It is broken down into glucose when energy is needed.

Ans 2: Starch:

Starch is a stogage polysaccharide stored in plants.

It is composed of glucose units.