

Chapter – 9 | Biomolecules**QUIZ
PART-03**

1. Carbohydrates are chemically —

- A. Polyhydroxy aldehydes or ketones
- B. Only amino acids
- C. Only nucleotides
- D. Only fatty acids (A)

Explanation : Carbohydrates are defined as polyhydroxy aldehydes or ketones.

2. In plants, carbohydrates are mainly distributed as —

- A. Starch and cellulose
- B. Protein and lipid
- C. DNA and RNA
- D. Glycerol and fatty acid (A)

Explanation : Plant carbohydrates are mainly present as starch and cellulose.

3. Monosaccharides are —

- A. Simple carbohydrates
- B. Long protein chains
- C. Complex lipids
- D. Nitrogenous bases (A)

Explanation : Monosaccharides are basic simple sugars and cannot be further hydrolysed.

4. Oligosaccharides are formed by —

- A. 2 to 10 monosaccharides
- B. 20 amino acids
- C. Many fatty acids only
- D. Nucleotides only (A)

Explanation : Oligosaccharides are short chains of 2–10 monosaccharide units.

5. Sucrose is made up of —

- A. Glucose + Fructose
- B. Glucose + Galactose
- C. Glucose + Glucose
- D. Fructose + Galactose (A)

Explanation : Sucrose is a disaccharide made of glucose and fructose.

6. Which of the following is not a polysaccharide?

- A. Cellulose
- B. Glycogen
- C. Sucrose
- D. Chitin (C)

Explanation : Sucrose is an oligosaccharide/disaccharide, not a polysaccharide.

7. Plant cell wall is mainly made of —

- A. Glycogen
- B. Cellulose
- C. Inulin
- D. Starch (B)

Explanation : Cellulose is a homopolymer of glucose and forms plant cell walls.

8. The stored food in animals is —

- A. Cellulose
- B. Glycogen
- C. Inulin
- D. Chitin (B)

Explanation : Glycogen is a branched polysaccharide stored as food in animals.

9. Proteins are polymers of —

- A. Fatty acids
- B. Amino acids
- C. Nucleotides
- D. Monosaccharides (B)

Explanation : Many amino acids join by peptide bonds to form proteins.

10. An amino acid contains —

- A. Amino group, carboxyl group, hydrogen and R group
- B. Only phosphate and sugar
- C. Only glycerol and fatty acid
- D. Only nitrogenous base (A)

Explanation : Amino acids have -NH_2 , -COOH , H and side chain R attached to α -carbon.