



Class 12 Chemistry | Biomolecules

MCQ WORKSHEET • 15 questions • Choose one correct option • Suggested time: 25 minutes

1. Glucose is classified as an:

- A. Disaccharide B. Aldopentose
C. Aldohexose D. Ketohexose

2. Fructose is classified as a:

- A. Polysaccharide B. Ketopentose
C. Ketohexose D. Aldohexose

3. Hydrolysis of sucrose produces:

- A. Two glucose molecules
B. Glucose and fructose
C. Glucose and galactose
D. Two fructose molecules

4. Which is a nonreducing sugar?

- A. Sucrose B. Glucose C. Lactose D. Maltose

5. Hydrolysis of lactose gives:

- A. Two fructose molecules
B. Glucose and fructose
C. Two ribose molecules
D. Glucose and galactose

6. The main storage polysaccharide in animals is:

- A. Cellulose B. Sucrose C. Glycogen D. Starch

7. Cellulose consists of repeating units of:

- A. β -D-Glucose B. α -D-Fructose
C. β -D-Ribose D. α -D-Galactose

8. The linkage joining amino acids in a protein is:

- A. Peptide bond B. Glycosidic bond
C. Phosphodiester bond D. Ionic bond only

9. An amino acid in a zwitterionic form contains:

- A. Only negative charge
B. No charged groups
C. Only positive charge
D. Both positive and negative charges

10. Protein primary structure specifies:

- A. Number of folded subunits only
B. Only β -sheets
C. Amino-acid sequence
D. Only α -helices

11. α -Helix structure is stabilised chiefly by:

- A. Glycosidic bonds
B. Hydrogen bonds
C. Peptide-bond cleavage
D. Phosphodiester bonds

12. Protein denaturation generally leaves which level intact?

- A. Primary structure
B. Quaternary structure always
C. Secondary structure
D. Tertiary structure

13. Which vitamin is water-soluble?

- A. Vitamin K B. Vitamin C
C. Vitamin D D. Vitamin A

14. Which base is present in RNA but not DNA?

- A. Uracil B. Guanine C. Adenine D. Thymine

15. A nucleotide contains a base, sugar and:

- A. Fatty acid B. Peptide group
C. Phosphate group D. Amino acid

ANSWER KEY — check after completing all 15 questions

1.C 2.C 3.B 4.A 5.D 6.C 7.A 8.A 9.D 10.C 11.B 12.A 13.B 14.A 15.C

Original exam-style practice • Reference notes: www.physics.guru/cbse-practice-papers/ • Not an official paper