

Fundamentals of Water and Biochemistry

Biology · Answer Key · 15 Questions

1. What property of water allows it to stick to other surfaces?

- A) Cohesion
- B) Adhesion**
- C) Surface tension
- D) Polarity

2. What is the term for water's ability to stick to itself?

- A) Adhesion
- B) Capillary action
- C) Cohesion**
- D) Solvent

3. Which term describes a substance that 'fears' or repels water?

- A) Hydrophilic
- B) Hydrophobic**
- C) Solute
- D) Polar

4. What is the primary element composition of Carbohydrates?

- A) CHO**
- B) CHON
- C) CHONP
- D) CHOP

5. Which macromolecule is characterized by the CHONP composition?

- A) Proteins
- B) Lipids
- C) Carbohydrates
- D) Nucleic Acids**

6. What property of water allows it to absorb a lot of heat without a significant temperature increase?

- A) High specific heat capacity**
- B) Polarity
- C) Surface tension
- D) Adhesion

7. What is the monomer of a protein?

- A) Monosaccharide
- B) Fatty acid
- C) Amino acid**
- D) Nucleotide

8. What is the function of an enzyme?

- A) Store energy
- B) Speed up chemical reactions**
- C) Provide structure
- D) Build lipids

9. Which scale measures the acidity or alkalinity of a solution?

- A) Celsius scale
- B) pH scale**
- C) Richter scale
- D) Kelvin scale

10. What is a substance that is dissolved in a solvent called?

- A) Solution
- B) Solute**
- C) Polymer
- D) Monomer

11. What makes water a 'universal solvent'?

- A) Its high heat capacity
- B) Its polarity**
- C) Its lack of charge
- D) Its density

12. What is a long chain made of repeating monomer units called?

- A) Polymer**
- B) Atom
- C) Molecule
- D) Element

13. Which elements are found in Proteins?

- A) CHO
- B) CHON**
- C) CHONP
- D) CHOPS

14. What allows water to move up thin tubes, such as in plants?

- A) Surface tension
- B) Capillary action**
- C) Hydrophobicity
- D) Specific heat

15. What is the main property of water caused by its positive and negative poles?

- A) Density
- B) Polarity**
- C) Transparency
- D) Viscosity