

Amazing Biochemistry Basics

Biochemistry · Answer Key · 8 Questions

1. What is the main power source for most living cells?

- A) Sunlight
- B) Sugar**
- C) Water
- D) Air

2. Which molecule carries the genetic instructions for all living organisms?

- A) Protein
- B) DNA**
- C) Fat
- D) Vitamin

3. What are the tiny factories inside cells that make proteins?

- A) Nucleus
- B) Mitochondria
- C) Ribosomes**
- D) Vacuoles

4. What is the most abundant molecule in living things, essential for many life processes?

- A) Carbon Dioxide
- B) Salt
- C) Water**
- D) Oxygen

5. What type of molecule is a primary building block for muscles and hair?

- A) Carbohydrate
- B) Lipid (Fat)
- C) Nucleic Acid
- D) Protein**

6. Which process do plants use to convert sunlight, water, and carbon dioxide into food (sugar)?

- A) Respiration
- B) Photosynthesis**
- C) Digestion
- D) Fermentation

7. What are the basic units that make up DNA and RNA?

- A) Amino acids
- B) Fatty acids
- C) Nucleotides**
- D) Sugars

8. Which organelle is responsible for generating most of the cell's supply of adenosine triphosphate (ATP), used as a source of chemical energy?

- A) Lysosome
- B) Golgi apparatus
- C) Endoplasmic reticulum
- D) Mitochondrion**