

## Photosynthesis and Cellular Respiration—Review Questions Answer Key

1. What is photosynthesis?
  - a. The process autotrophs go through to convert the sun's energy into chemical energy for the cell.
2. What happens during the first stage of photosynthesis?
  - a. Energy from the sun is captured by chlorophyll located within the chloroplasts in the leaves of plants. Water travels from the roots to the leaves. Oxygen is released. Hydrogen moves to the second stage.
3. What is the second stage called? What happens during the second stage?
  - a. The Calvin Cycle
  - b.  $\text{CO}_2$  enters the leaf and is broken down to make  $\text{C}_6\text{H}_{12}\text{O}_6$  (glucose).
4. What is cellular respiration?
  - a. Process that releases energy (ATP) by breaking down food molecules in the presence of oxygen.
5. What is broken down during glycolysis?
  - a. Glucose
6. What are the wastes for photosynthesis? Cellular respiration?
  - a. Oxygen
  - b. Carbon dioxide
7. Water can be broken into what molecules?
  - a. Hydrogen and oxygen
8. What is the chemical formula for glucose?
  - a.  $\text{C}_6\text{H}_{12}\text{O}_6$
9. Where does carbon dioxide come a plant?
  - a. The stomata on the underside of leaves.
10. What stage is the majority of ATP produced during cellular respiration?
  - a. The electron transport chain.
11. What stage is water produced during cellular respiration?
  - a. The electron transport chain.
12. What does oxygen do during the electron transport chain?
  - a. Combines with hydrogen to create water.
13. What are the products of photosynthesis? What are the reactants?
  - a. Glucose and oxygen
  - b. Water, energy, and carbon dioxide
14. What are the products of cellular respiration? What are the reactants?
  - a. Water, energy, and carbon dioxide
  - b. Glucose and oxygen
15. What is the formula for photosynthesis? Cellular respiration?
  - a.  $\text{Energy} + 6\text{H}_2\text{O} + 6\text{CO}_2 \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
  - b.  $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow \text{Energy} + 6\text{H}_2\text{O} + 6\text{CO}_2$
16. Where do the following take place:
  - a. Glycolysis
    - i. The Cytoplasm
  - b. Krebs Cycle
    - i. The mitochondria
  - c. Electron Transport Chain
    - i. The mitochondria
17. Define the following:
  - a. ATP
    - i. The main energy source that cells use for most of their work.
  - b. Autotroph
    - i. An organism that makes its own food.
  - c. Chemotroph

# Chapter 9 Cellular Respiration Test Answer Key

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