

Campbell's Biology: Concepts and Connections, 7e (Reece et al.)
Chapter 6 How Cells Harvest Chemical Energy

6.1 Multiple-Choice Questions

1) Which of the following statements regarding photosynthesis and cellular respiration is *true*?

- A) Photosynthesis occurs in chloroplasts, and cellular respiration occurs in mitochondria.
- B) Photosynthesis occurs in mitochondria, and cellular respiration occurs in chloroplasts.
- C) Photosynthesis occurs in mitochondria and in chloroplasts.
- D) Cellular respiration occurs in mitochondria and in chloroplasts.

Answer: A

Topic: 6.1

Skill: Knowledge/Comprehension

2) How do cells capture the energy released by cellular respiration?

- A) They produce ATP.
- B) They produce glucose.
- C) They store it in molecules of carbon dioxide.
- D) The energy is coupled to oxygen.

Answer: A

Topic: 6.1

Skill: Knowledge/Comprehension

3) The processes of photosynthesis and cellular respiration are complementary. During these energy conversions, some energy is

- A) lost in the form of heat.
- B) used to create light.
- C) destroyed when the chemical bonds of glucose are made.
- D) saved in the chemical bonds of water, CO₂ and O₂.

Answer: A

Topic: 6.1

Skill: Knowledge/Comprehension

4) Respiration _____, and cellular respiration _____.

- A) produces ATP . . . is gas exchange
- B) is gas exchange . . . produces ATP
- C) produces glucose . . . produces oxygen
- D) uses glucose . . . produces glucose

Answer: B

Topic: 6.2

Skill: Knowledge/Comprehension

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