

Chapter 10 Photosynthesis

Multiple-Choice Questions

- 1) If photosynthesizing green algae are provided with CO_2 synthesized with heavy oxygen (^{18}O), later analysis will show that all but one of the following compounds produced by the algae contain the ^{18}O label. That one is
- A) PGA.
 - B) PGAL.
 - C) glucose.
 - D) RuBP.
 - E) O_2 .

Answer: E

Topic: Concept 10.1

Skill: Application/Analysis

- 2) Which of the following are products of the light reactions of photosynthesis that are utilized in the Calvin cycle?
- A) CO_2 and glucose
 - B) H_2O and O_2
 - C) ADP, P_i , and NADP^+
 - D) electrons and H^+
 - E) ATP and NADPH

Answer: E

Topic: Concept 10.1

Skill: Knowledge/Comprehension

- 3) What are the products of the light reactions that are subsequently used by the Calvin cycle?
- A) oxygen and carbon dioxide
 - B) carbon dioxide and RuBP
 - C) water and carbon
 - D) electrons and photons
 - E) ATP and NADPH

Answer: E

Topic: Concept 10.1

Skill: Knowledge/Comprehension

- 4) Where does the Calvin cycle take place?
- A) stroma of the chloroplast
 - B) thylakoid membrane
 - C) cytoplasm surrounding the chloroplast
 - D) chlorophyll molecule
 - E) outer membrane of the chloroplast

Answer: A

Topic: Concept 10.1

Skill: Knowledge/Comprehension

Chapter 10 Photosynthesis Multiple Choice Questions

S Ashworth



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