Chapter 8 & 9 Photosynthesis and Cellular Respiration Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the avestion.

- Energy is released from ATP when
 - a. a phosphate group is added.
 - b. adenine bonds to ribose.

- ATP is exposed to sunlight.
- d. a phosphate group is removed.

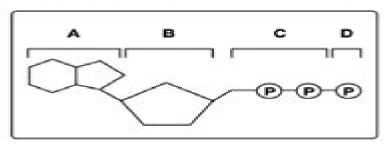


Figure 8-1

- Which structures shown in Figure 8-1 make up an ATP molecule?
 - a. A and B. e. A. B. C. and D.
 - b. A. B. and C. d. C and D.
- 3. Which of the following are used in the overall reactions for photosynthesis?
 - a. carbon dioxide e. liight
 - b. water
- 4. Most plants appear green because chlorophyll
 - a. does not absorb green light.
 - b. reflects violet light.

- d. all of the above
- absorbs green light.
- d. none of the above
- 5. What are the products of the light-dependent reactions?
 - a. oxygen gas NADPH.
 - b. ATP.

- d. all of the above
- 6. The Calvin cycle takes place in the
 - a. strorma.

c. thylakoid membranes.

b. photosystems.

- d. chlorophyll molecules.
- 7. If carbon dioxide is removed from a plant's environment, what would you expect to happen to its production of high-energy sugars?
 - a. More sugars will be produced.
 - b. No sugars will be produced.
 - c. The same number of sugars will be produced but without carbon dioxide.
 - d. Carbon dioxide does not affect the production of high-energy sugars in plants.
- 8. If you continue to increase the intensity of light that a plant receives, what happens?
 - The rate of photosynthesis increases with light intensity.
 - The rate of photosynthesis decreases with light intensity.
 - c. The rate of photosynthesis increases and then levels off.
 - d. The rate of photosynthesis does not change.

<u>Photosynthesis And Cellular Respiration Test Answer</u> <u>Key</u>

G Thomas

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