Name Period Date

SECTION 4.3

PHOTOSYNTHESIS IN DETAIL

Section Quiz

Choose the letter of the best answer.

_____ **1.** Which of the following takes place in the light-dependent reactions of photosynthesis?

a. Sugars are made.
b. Energy is captured.
c. Chlorophyll is pumped.
d. CO_2 is formed.

_____ **2.** Where do the hydrogen ions for the photosystems of the light-dependent reactions come from?

a. sugars
b. sunlight
c. acids
d. water

_____ **3.** Which phrase best describes the electron transport chain in photosynthesis?

a. a chain of photosynthetic proteins located in the stroma
b. a collection of enzymes used to make ADP
c. a series of proteins located in the thylakoid membrane
d. a group of enzymes that carries energy to the Calvin cycle

_____ **4.** In the light-independent reactions of photosynthesis,

a. CO_2 enters the Calvin cycle and sugars are made.
b. H_2O is broken down and oxygen is released.
c. NADPH is produced and transferred to photosystem I.
d. electrons are energized and used to pump H^+ ions.

_____ **5.** What is the relationship between the photosystems and the Calvin cycle?

a. The photosystems produce ATP synthase for the Calvin cycle.
b. The photosystems transfer hydrogen ions and carbon dioxide to the Calvin cycle.
c. The photosystems transfer energy to the Calvin cycle through ATP and NADPH.
d. The photosystems build sugars with the carbon dioxide produced by the Calvin cycle.

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