Cells and Energy

# Study Guide A

#### **Answer Key**

## SECTION 1. CHEMICAL ENERGY AND ATP

- 1. molecule: food molecules
- 2. high-energy; lower-energy
- phosphate group.
- 4. ac do be of
- 5. bale
- 6. 42.4
- 7. ac f.
- 8. chemical energy; light energy
- 9), thines; two-
- 10, chemical; molecules

#### SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

- 1. chemical energy
- light energy; chemical energy
- visible light.
- photosynthesis
- 5. stroma; grana
- 6. grana
- Equation: 6CO<sub>2</sub> + 6H<sub>2</sub>O → C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> + 6O<sub>2</sub>
- 8. 6CO<sub>2</sub> and 6H<sub>2</sub>O
- 6O<sub>2</sub> and C<sub>8</sub>H<sub>12</sub>O<sub>8</sub>
- 10. b
- 11. require light; energy
- 12. do not require light; sugars
- Refer to Figure 2.2 for a visual answer.
  The four steps are: d, a, b, c
- 14. energy; sugars
- 15. green
- 16. independent

#### SECTION 3. PHOTOSYNTHESIS IN DETAIL

- 1. capture; transfer
- 2. molecules
- 3. ATP: NADPH
- 4. b, g, d, f, c, c, a
- 5. carbon dioxide
- 6. 1 b; 2 d; A a; 3 e; 4 e.
- 7. proteins
- 8. synthesizes:
- 9, with no beginning or end.

#### SECTION 4. OVERVIEW OF CELLULAR RESPIRATION

- 1. energy; oxygen
- coxygen
- 3. mitochondria.
- 4. glucose: ATP
- 5. bc e
- 6. 80, 61
- Equation: C<sub>+</sub>H<sub>12</sub>O<sub>6</sub> + 6O<sub>2</sub> → 6CO<sub>2</sub> + 6H<sub>2</sub>O
- 6O<sub>2</sub> and C<sub>4</sub>H<sub>12</sub>O<sub>4</sub>
- 9. 6CO2 and 6H2O
- 10. di
- Refer to Figure 4.2 for a visual answer.
  The four steps are: d, b, a, c
- 12. sugar.
- 13. oxygen
- 14. break down

#### SECTION 5. CELLULAR RESPIRATION IN DETAIL

- 1. glucose
- Pyruvate and NADH; ATP
- 3. twoo; four
- 46. 60
- 5. c. b. a. d. e.
- 6. immer
- 7. electrons; hydrogen ions
- 8. c. d. b. a.
- 9. electrons

#### SECTION 6. FERMENTATION

- 1. ATP
- 2. electrons.
- hard exercise
- 4. oxygen
- 5. two
- For a visual answer, refer to the lactic acid fermentation diagram in Section 6. The order of the four steps is: d, b, c, a
- For a visual answer, refer to the alcoholic fermentation diagram in Section 6. The order of the four steps is: c, a, d, b

# **Cells And Energy Study Guide Answer Key**

Sue E. Huether, Kathryn L. McCance

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