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.
- 40 ac de be el
- 5. bc ie.
- 6. c; d.
- $T_{i}$  we  $T_{i}$
- 8. chemical energy; light energy
- 9. three; two
- 10. chemical; molecules

#### SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

- 1. chemical energy
- light energy; chemical energy
- visible light.
- 4. photosynthesis
- 5. stroma; grana-
- 6. grana
- Equation: 6CO<sub>2</sub> + 6H<sub>2</sub>O → C<sub>8</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>4</sub>H<sub>12</sub>O<sub>4</sub>
- 10. b
- 11. require light; energy
- 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

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

#### SECTION 4. OVERVIEW OF CELLULAR RESPIRATION

- 1. energy; oxygen
- 2. oxygen
- 3. mitochondria
- glucose: ATP.
- 5. bc c.
- 6. 40. 61
- Equation: C<sub>6</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. 6CO<sub>2</sub> and 6H<sub>2</sub>O
- 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

- I. glucose
- Pyruvate and NADH; ATP
- 3. twoo; four
- 4. c
- 5. c. b. a. d. c.
- 6. immer
- electrons; hydrogen ions
- 8. c. d. b. a.
- electrons.

#### SECTION 6. FERMENTATION

- I. ATP
- 2. electrons
- hard exercise.
- 4. oxygen
- 5. Invitor
- 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: e, a, d, b

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**Guillaume Favre** 

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