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. a; d; b; c.
- 5. bee
- 6. et di
- 7. a; f
- 8. chemical energy; light energy
- 9. three: two
- 10. chemical: molecules

### SECTION 2. OVERVIEW OF PHOTOSYNTHESIS

- 1. chemical energy
- 2. light energy; chemical energy
- visible light.
- 4. photosynthesis
- stroena; grana
- 6. grana
- Equation: 6CO<sub>2</sub> + 6H<sub>2</sub>O → C<sub>6</sub>H<sub>67</sub>O<sub>6</sub> + 6O<sub>2</sub>
- 8. 6COs and 6HsO
- 9. 6O<sub>2</sub> and C<sub>4</sub>H<sub>12</sub>O<sub>4</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. emergy; sugars
- 15. green
- 16: independent

# SECTION 3. PHOTOSYNTHESIS IN DETAIL

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

### SECTION 4. OVERVIEW OF CELLULAR RESPIRATION

- 1. energy; oxygen
- oxygen.
- 3. mitochondria
- glucose: ATP
- 5. b. c.
- the many
- Equation: C<sub>4</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>6</sub>H<sub>12</sub>O<sub>6</sub>
- 6CO<sub>1</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
- oxygen.
- 14. break down

### SECTION 5. CELLULAR RESPIRATION IN DETAIL

- I. glucose
- Pyruvate and NADH; ATP
- 3. trovos four
- 4. 0
- 5. c, b, a, d, c,
- 6. inner
- electrons; hydrogen ions.
- 8. c. d. b. a.
- 9. electrons

#### SECTION 6. FERMENTATION

- L. ATP
- electrons.
- hard exercise
- 4. oxygen
- 5. Irono.
- 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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**Albert A Gayle** 

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