

## BIOLOGY: Chapter 9-Cellular Respiration

### Multiple Choice

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

- \_\_\_\_\_ 1. Which of the following is the correct sequence of events in cellular respiration?
- glycolysis → fermentation → Krebs cycle
  - Krebs cycle → electron transport → glycolysis
  - glycolysis → Krebs cycle → electron transport
  - Krebs cycle → glycolysis → electron transport
- \_\_\_\_\_ 2. Which of the following is released during cellular respiration?
- oxygen
  - air
  - energy
  - lactic acid
- \_\_\_\_\_ 3. Cellular respiration uses one molecule of glucose to produce
- 2 ATP molecules.
  - 34 ATP molecules.
  - 36 ATP molecules.
  - 38 ATP molecules.
- \_\_\_\_\_ 4. What is the correct equation for cellular respiration?
- $6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$
  - $6O_2 + C_6H_{12}O_6 + \text{Energy} \rightarrow 6CO_2 + 6H_2O$
  - $6CO_2 + 6H_2O \rightarrow 6O_2 + C_6H_{12}O_6 + \text{Energy}$
  - $6CO_2 + 6H_2O + \text{Energy} \rightarrow 6O_2 + C_6H_{12}O_6$
- \_\_\_\_\_ 5. Cellular respiration releases energy by breaking down
- food molecules.
  - ATP.
  - carbon dioxide.
  - water.
- \_\_\_\_\_ 6. What are the reactants in the equation for cellular respiration?
- oxygen and lactic acid
  - carbon dioxide and water
  - glucose and oxygen
  - water and glucose
- \_\_\_\_\_ 7. Which of these is a product of cellular respiration?
- oxygen
  - water
  - glucose
  - all of the above
- \_\_\_\_\_ 8. Which of these processes takes place in the cytoplasm of a cell?
- glycolysis
  - electron transport
  - Krebs cycle
  - all of the above
- \_\_\_\_\_ 9. Glycolysis provides a cell with a net gain of
- 2 ATP molecules.
  - 4 ATP molecules.