

L2 Biology Respiration Quiz 1

Multiple Choice

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

- ____ 1. What is the correct equation for cellular respiration?
 a. $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy}$ b. $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 + \text{Energy} \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$ c. $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow 6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 + \text{Energy}$ d. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy} \rightarrow 6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6$
- ____ 2. Cellular respiration releases energy by breaking down
 a. food molecules. b. ATP. c. carbon dioxide. d. water.
- ____ 3. What are the reactants in the equation for cellular respiration?
 a. oxygen and lactic acid b. carbon dioxide and water c. glucose and oxygen d. water and glucose
- ____ 4. Which of these is a product of cellular respiration?
 a. oxygen b. water c. glucose d. all of the above
- ____ 5. Glycolysis provides a cell with a net gain of
 a. 2 ATP molecules. b. 4 ATP molecules. c. 18 ATP molecules. d. 36 ATP molecules.
- ____ 6. The starting molecule for glycolysis is
 a. ADP. b. pyruvic acid. c. citric acid. d. glucose.
- ____ 7. Glycolysis requires
 a. an energy input. b. oxygen. c. hours to produce many ATP molecules. d. NADP^+ .
- ____ 8. Lactic acid fermentation occurs in
 a. bread dough. b. any environment containing oxygen. c. muscle cells. d. mitochondria.
- ____ 9. The two main types of fermentation are called
 a. alcoholic and aerobic. b. aerobic and anaerobic. c. alcoholic and lactic acid. d. lactic acid and anaerobic.

Matching

Match the letter of the correct answer with the statements below. Note, when using a scantron; AB=F

- | | |
|-------------------------|----------------------|
| a. Aerobe | d. ATP |
| b. Glycolysis | e. Glucose |
| c. Facultative Anaerobe | f. Obligate Anaerobe |

- ____ 10. Organism which is harmed buy oxygen
- ____ 11. Form of energy output from cell respiration
- ____ 12. Organism which requires oxygen to live.
- ____ 13. Process which results in 2 molecules of pyruvic acid
- ____ 14. Organism which may use but does not require oxygen
- ____ 15. Starting molecule of respiration

**L2 Biology Respiration Quiz 1
Answer Section**

MULTIPLE CHOICE

1. A
2. A
3. C
4. B
5. A
6. D
7. A
8. C
9. C

MATCHING

10. F
11. D
12. A
13. B
14. C
15. E