Study Guide

CHAPTER 8

Section 3: Cellular Respiration

In your textbook, read about cellular respiration and glycolysis.

Use each of the terms below only once to complete the passage.

-acrobic -anaerobic ATP- cellular respiration -cytopiasm energy,
-glucose- glycolysis -mitochondria -NADH -oxygen-

It is aerobic because the process requires (11) . Oxugen

Refer to the diagram of glycolysis. Label the steps in the description to match the diagram.

- Step ______. Each three-carbon compound is converted into a three-carbon pyruvate.
- Step ______. A six-carbon compound is broken down into two three-carbon compounds.
- Step _____. Phosphate groups from two ATP molecules are transferred to a glucose molecule.
- Step _3__. Two NADH molecules and four ATP molecules are produced.

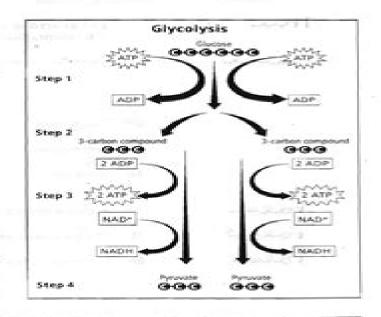
Respond to each question.

16. Interpret How many total ATP molecules are produced from the glycolysis of one six-carbon glucose?

2 net ATP, 4 are produced.

17. Explain Why is there a net gain of only two ATP molecules in the glycolysis of one six-carbon glucose?

4 are produced, but 2 are used to for ADP + P; so a net gain of 2 ATP



Biology Lab Manual Answer Key Cellular Respiration

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