
Chapter 14 Glycolysis, Gluconeogenesis, and the Pentose Phosphate Pathway

Multiple Choice Questions

1. Glycolysis

Page: 522 Difficulty: 2 Ans: D

Glycolysis is the name given to a metabolic pathway occurring in many different cell types. It consists of 11 enzymatic steps that convert glucose to lactic acid. Glycolysis is an example of:

- A) aerobic metabolism.
- B) anabolic metabolism.
- C) a net reductive process.
- D) fermentation.
- E) oxidative phosphorylation.

2. Glycolysis

Page: 523 Difficulty: 1 Ans: C

The anaerobic conversion of 1 mol of glucose to 2 mol of lactate by fermentation is accompanied by a net gain of:

- A) 1 mol of ATP.
- B) 1 mol of NADH.
- C) 2 mol of ATP.
- D) 2 mol of NADH.
- E) none of the above.

3. Fates of pyruvate under anaerobic conditions: fermentation

Page: 523 Difficulty: 1 Ans: E

During strenuous exercise, the NADH formed in the glyceraldehyde 3-phosphate dehydrogenase reaction in skeletal muscle must be reoxidized to NAD^+ if glycolysis is to continue. The most important reaction involved in the reoxidation of NADH is:

- A) dihydroxyacetone phosphate \rightarrow glycerol 3-phosphate
- B) glucose 6-phosphate \rightarrow fructose 6-phosphate
- C) isocitrate \rightarrow α -ketoglutarate
- D) oxaloacetate \rightarrow malate
- E) pyruvate \rightarrow lactate

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J Elliott



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Enjoying the Track of Phrase: An Emotional Symphony within **Glycolysis Short Answer Questions Lehninger**

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codominance? • Incomplete dominance = heterozygous phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ... Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ... 11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ... Answers to All Questions and Problems Aug 14, 2015 — CHAPTER 1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to.