Answers to Practice Exam Questions: Glycolysis

(Hint: see textbook pages 306-307 for a summary of the reactions in glycolysis.)

- 1. Which of the following phosphorylated compounds would you predict to be a "low-energy" intermediate in metabolism, relative to the others?
- A. ATP
- B. 1,3-bisphosphoglycerate
- C. Glucose 6-phosphate
- D. Phosphoenolpyruvate
- E. NADH
- Which pair below correctly matches an enzyme with its effector?
- A. Phosphofructokinase-1 / fructose-1,6-bisphosphate
- B. Pyruvate kinase / phosphoenolpyruvate
- C. Hexokinase / glucose 1-phosphate
- D. Pyruvate kinase / fructose-1,6-bisphosphate
- E. Hexokinase / fructose-1,6-bisphosphate
- 3. Which of the following does NOT occur in the reactions of glycolysis between fructose-1,6-bisphosphate and 1,3-bisphosphoglycerate?
- A. Phosphoryl transfer
- B. An isomerization
- The formation of a high-energy intermediate
- D. Oxidation
- E. All of these occur.
- 4. In the exidation reaction of glycolysis, which of the following statements is TRUE?
- A. It is an irreversible reaction.
- B. It is a regulated step of glycolysis.
- C. During the catabolism of glucose to pyruvate, NAD* is oxidized.
- D. Some of the energy from the oxidation reaction is captured by the formation of ATP.
- E. The reaction halts in the absence of inorganic phosphate.

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S Ben Porath

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