1. The site on an enzyme where you would find a noncompetitive inhibitor is
   a. also where you would find the substrate
   b. the active site
   c. also where you find a competitive inhibitor
   d. the allosteric site

2. For the reactions shown above, which statement is NOT correct? Assume equal starting concentrations of the substrates for both reactions.
   a. both reactions are exergonic
   b. reaction 1 will occur at a higher rate than reaction 2
   c. at equilibrium, reaction 1 will produce more product than reaction 2
   d. both reactions have the same activation energy

3. From the Second Law of Thermodynamics you know that
   a. the amount of potential energy in the universe is always decreasing
   b. all chemical reactions are reversible
   c. entropy always decreases
   d. the universe has a constant amount of energy

4. An organic molecule that helps an enzyme to catalyze a chemical reaction by carrying substrates to the enzyme is called a
   a. cofactor
   b. coenzyme
   c. allosteric activator
   d. hormone

5. Which statement about enzyme catalyzed reactions is NOT correct?
   a. enzymes increase reaction rates
   b. enzymes lower the activation energy required to convert substrates to products
   c. increasing substrate concentration will always increase the reaction rate
   d. an enzyme’s ability to catalyze a reaction is usually closely matched to its environment