Assignment 8
The due date for submitting the assignment is 9/13/2013. All submissions must be submitted in the format indicated.

Week 1 - Assignment 8

1. Match the following to the five senses. If more than one answer is possible, choose all correct answers.
   A. Text
   B. Smell
   C. Hearing
   D. Taste
   E. Touch
   
   - A. Smell
   - B. Taste
   - C. Hearing

2. Which of the following enzymes are involved in the glycolysis pathway?
   A. Aldolase B
   B. Phosphofructokinase
   C. Pyruvate kinase
   D. Glucose 6-phosphate dehydrogenase
   E. Citrate synthase

3. Identify the enzyme that is associated with the conversion of pyruvate to acetyl-CoA.
   A. Pyruvate dehydrogenase complex
   B. Malate dehydrogenase
   C. Isocitrate dehydrogenase
   D. Succinyl-CoA synthetase
   E. Citrate synthase

4. If the reaction rate is limited by substrate availability, which of the following would be true?
   A. The velocity of the reaction would increase when the substrate concentration is increased.
   B. The velocity of the reaction would decrease when the substrate concentration is decreased.
   C. The velocity of the reaction would remain constant regardless of substrate concentration.
   D. The velocity of the reaction would not be affected by changes in substrate concentration.
   E. None of the above.

5. Identify the enzyme that catalyzes the first step in the Kreb's cycle.
   A. Citrate synthase
   B. Succinyl-CoA synthetase
   C. Isocitrate dehydrogenase
   D. Malate dehydrogenase
   E. Aconitase

6. Percent purity of liver tissue under the phase contrast of a microscope is 0.75. If the sample contains 20% contamination, what is the percent purity of the sample?
   A. 0.55
   B. 0.6
   C. 0.65
   D. 0.7
   E. 0.75

7. How is the activity of an enzyme affected by temperature?
   A. Increases with increasing temperature.
   B. Decreases with increasing temperature.
   C. Remains constant with increasing temperature.
   D. Varies unpredictably with temperature.
   E. None of the above.

8. Which of the following are not enzymes?
   A. DNA polymerase
   B. RNA polymerase
   C. Helicase
   D. Topoisomerase
   E. Aconitase

9. Which of the following is not an example of an enzyme that catalyzes a reaction in the Kreb's cycle?
   A. Citrate synthase
   B. Malate dehydrogenase
   C. Isocitrate dehydrogenase
   D. Pyruvate dehydrogenase complex
   E. Aconitase

10. Which of the following is not an example of an enzyme that catalyzes a reaction in the glycolysis pathway?
    A. Glucose 6-phosphate dehydrogenase
    B. Phosphofructokinase
    C. Pyruvate kinase
    D. Aldolase B
    E. Citrate synthase