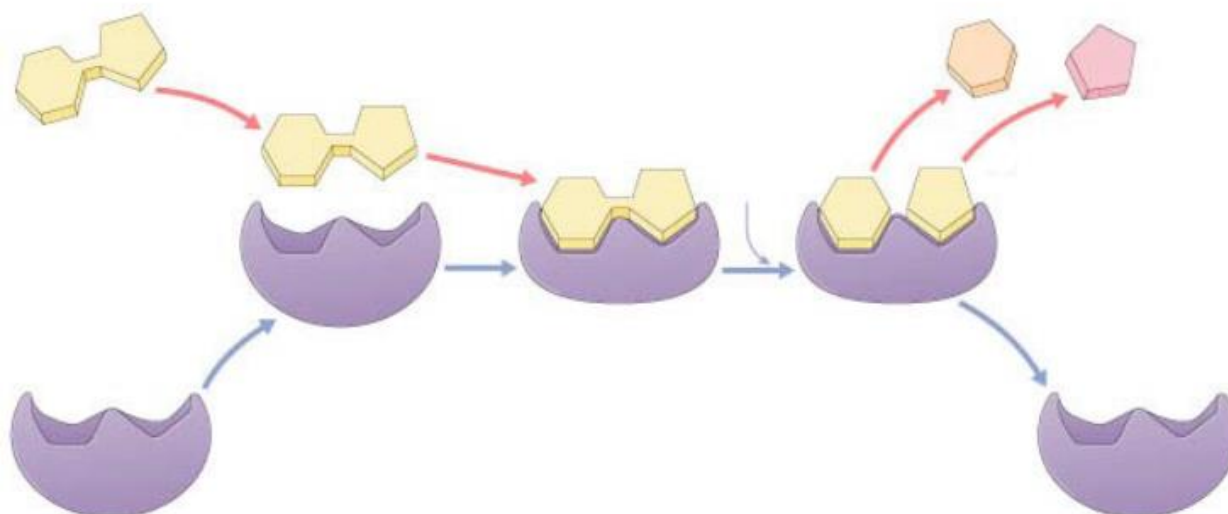


CHAPTER 8.3—8.5: All About Enzymes

1. Define activation energy.

2. How do enzymes affect the energy profile?

3. Use the following diagram to explain the catalytic enzyme cycle



4. Explain the induced fit model of enzyme action.

5. Why are enzymes said to be specific?

Name: _____

Question Set 16

6. Explain how temperature and pH influence the rate of enzyme reactions:

a. temperature _____

b. pH _____

c. enzyme concentration _____

d. substrate concentration _____

e. salinity _____

7. How do competitive and noncompetitive inhibitors differ in their enzyme interactions?

8. What happens during allosteric inhibition?

9. Explain the role of cofactors.

10. Describe feedback inhibition.
