

Part 1

Directions: Fill the blank with the appropriate heading and describe its function.

Name: _____

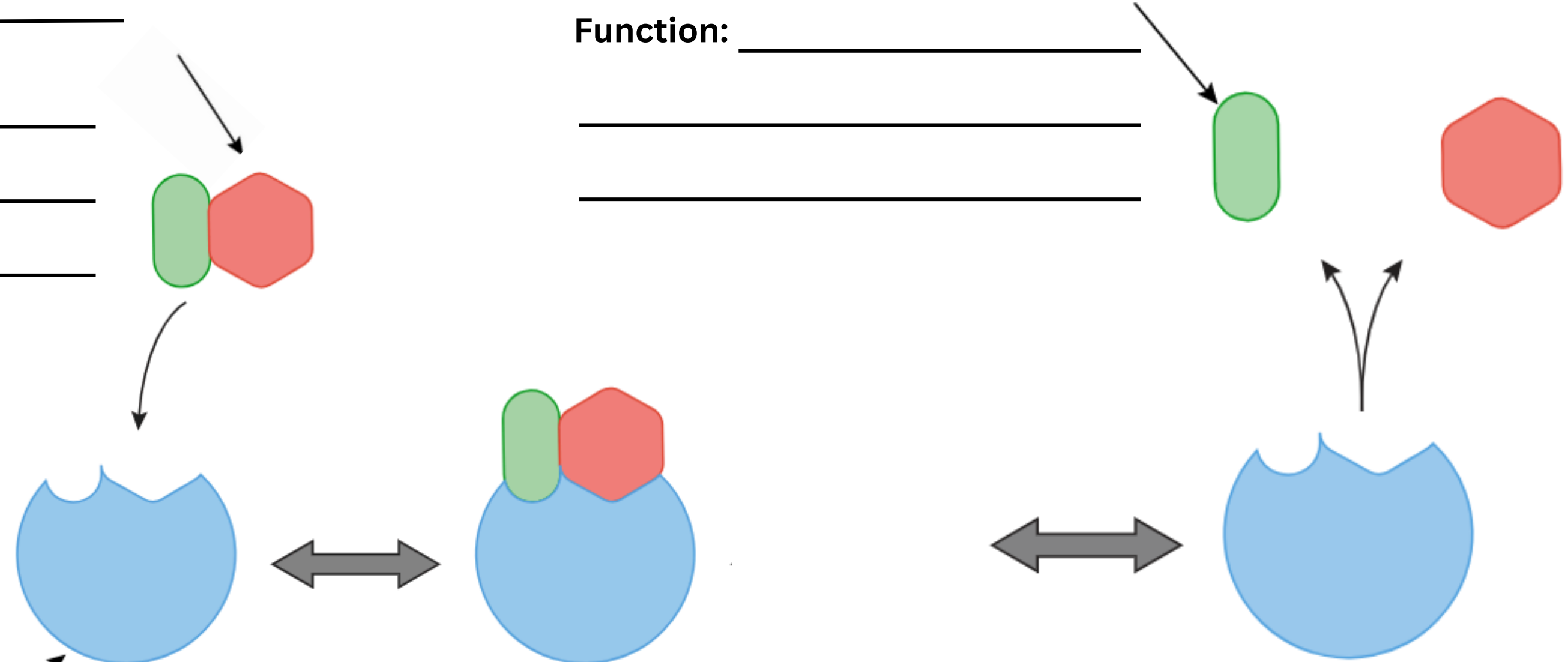
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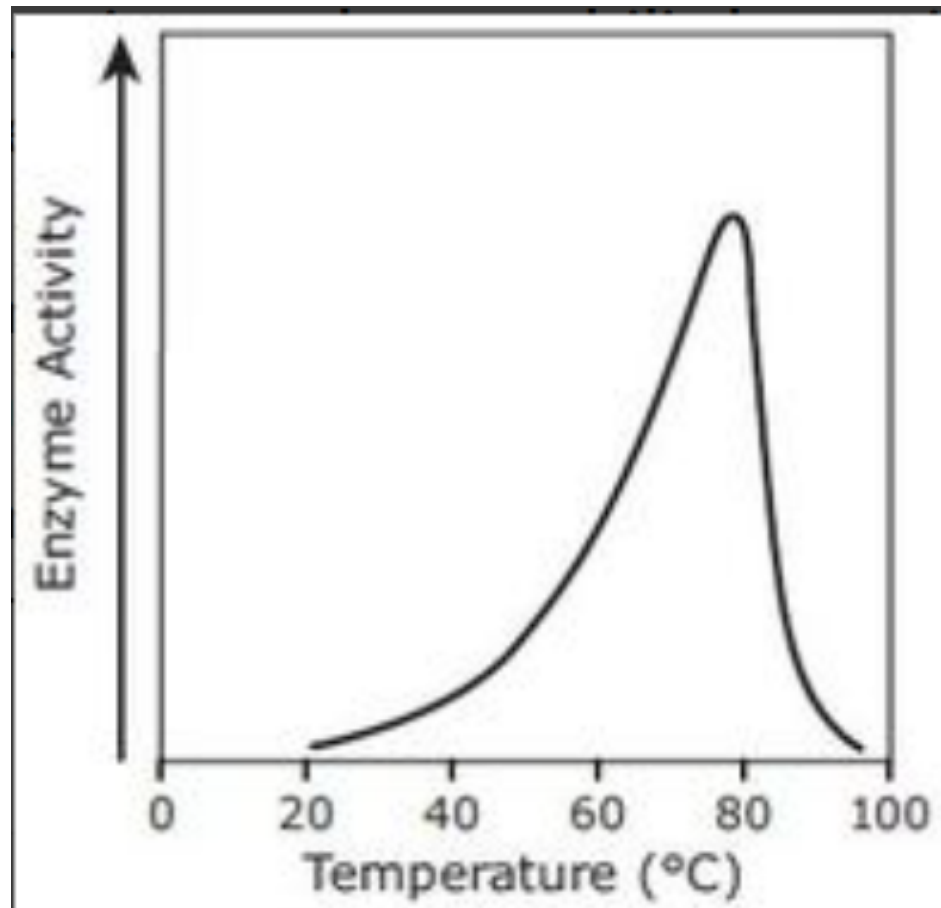
WORD BANK:

Enzyme, Substrate, Product

Binds to, speeds up, ...

Part 2:

Instructions: Circle your answer to each question.



1. Which statement about enzyme activity is best supported by the graph?

- a. An enzyme must be composed of multiple polypeptides, or subunits, to be active.
- b. An enzyme functions best under specific temperature conditions.
- c. An enzyme's rate of activity increases with time until it becomes inactive.

2. Which statement explains the effect of an inhibitor on an enzyme?

- a. A substrate will be able to bond with the enzyme.
- b. The enzyme will be unable to produce more enzymes.
- c. A substrate will be unable to attach to the enzyme.

3. A rennin is an enzyme that catalyzes a reaction that solidifies milk. Rennin is added to 3 test tubes with milk. Each test tube is placed in a water bath for 10 minutes. The data collected during the experiment is shown.

Test Tube	Variable	Result
1	Cold water bath	Few solids present in the liquid milk
2	Room-temperature water bath	Semi-solid milk
3	Hot water bath	No solids, only liquid milk

Which statement best explains the result of test tube 3?

- a. The enzyme changed the product
- b. The substrate was used up
- c. The enzyme was denatured
- d. The substrate reacted with the enzyme