

QUIZIZZ

Enzymes

18 Questions

NAME : _____

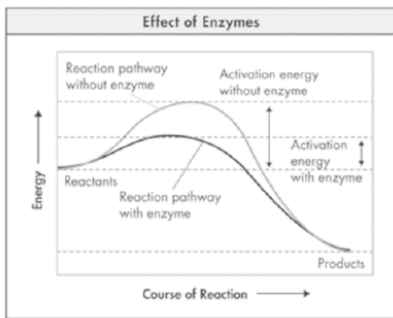
CLASS : _____

DATE : _____

1. What is a substance called if it speeds up a chemical reaction?

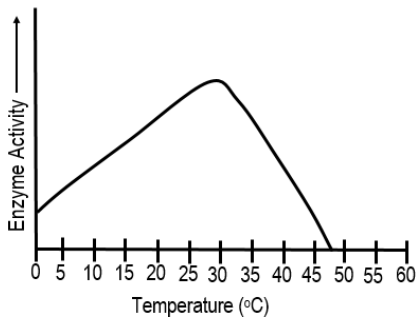
- a) reusable b) catalyst
 c) specific d) fragile

2. The graph shows how enzymes affect reactions in cells. Which statement best summarizes the information shown in the graph?



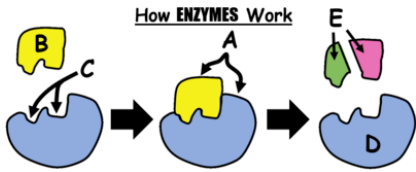
- a) Enzymes increase the energy of the reactants. b) Enzymes decrease the energy level of the products.
 c) Enzyme decrease the activation energy of the reaction. d) Enzymes reverse the direction of the reaction.

3. Based on the graph, what is the optimal temperature for this enzyme?



- a) 15°C b) 40°C
 c) 30°C d) 35°C

4.



In the diagram, what is letter A?

- a) product
- b) substrate
- c) enzyme-substrate complex
- d) active site

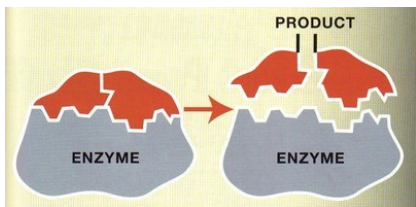
5. Enzymes are...

- a) nucleic acids
- b) proteins
- c) lipids
- d) carbohydrates

6. What is the function of an enzyme?

- a) enzymes break themselves into small pieces
- b) enzymes slow down chemical reactions
- c) enzymes speed up chemical reactions
- d) enzymes combine products to form reactants

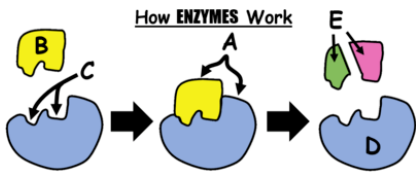
7.



Enzymes speed up reaction rates by changing...

- a) Activation Energy
- b) pH
- c) Hydrogen Bonds
- d) Kinetic Energy

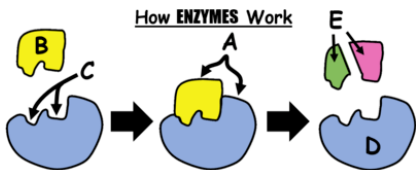
8.



Letter D...

- a) active site
- b) enzyme
- c) substrate
- d) products

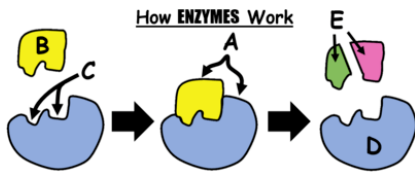
9.



Letter B...

- a) active site
- b) enzyme
- c) substrate
- d) products

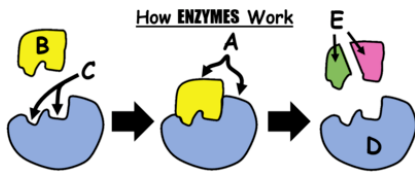
10.



Letter C...

 a) active site b) enzymes c) substrate d) products

11.



Letter E...

 a) active site b) enzyme c) substrate d) products

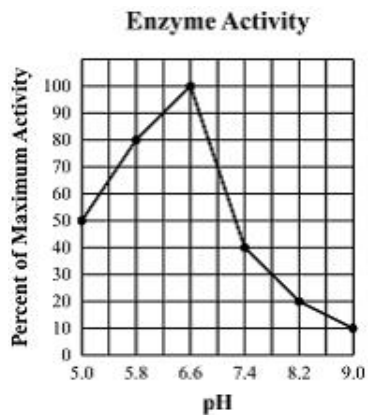
12. With what 3 letters do enzymes typically end?

 a) -ose b) -ase c) -ese d) -tic

13. Any substance that is acted upon by an enzyme is called a(n)?

 a) Coenzyme b) Substrate c) Vitamin d) Polypeptide

14.



Which of the following conclusions can be drawn from this graph?

 a) The optimum pH of the enzyme is 6.6. b) The optimum pH of the enzyme is 5.8 c) The enzyme's activity increases as pH increases 5.0 to 9.0 d) The enzyme's activity is greater around pH of 8.0 .

15. What happens when enzymes are heated to a high temperature?

- a) The enzymes die. b) The shapes of the enzyme are altered.
- c) The enzymes' amino acid sequence changes. d) The enzymes remain the same

16. Enzymes will make a reaction go _____ and use _____ energy.

- a) faster, less b) faster, more
- c) slower, less d) slower, more

17. What happens to an enzyme when it is denatured?

- a) Activation energy is lowered. b) It becomes stronger.
- c) It loses its shape. d) Activation energy is raised.

18. Every enzyme has a optimal temperature and pH. True or False?

- a) True b) False

Answer Key

- 1. b
- 2. c
- 3. c
- 4. c
- 5. b

- 6. c
- 7. a
- 8. b
- 9. c
- 10. a

- 11. d
- 12. b
- 13. b
- 14. a
- 15. b

- 16. a
- 17. c
- 18. a