

Name: _____ Date: _____ Class Pd. _____

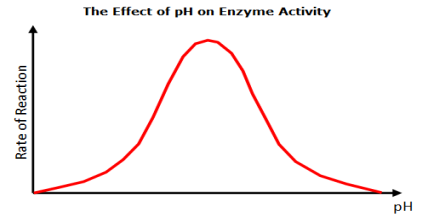
Organic Compounds & Enzyme Test Review Sheet:

Use this review sheet, notes, worksheets and unit quizzes to help you study for the unit test.

1. In examining the structure located to the right, How does the structure of this enzyme help with its function?
2. A student is given a small amount of unknown tan-colored liquid substance. This unknown liquid is placed into a glass of water and mixed. Despite mixing, the tan liquid remains separated from the water and collects as a large droplet at the top. Which of the macromolecule groups is this liquid MOST likely to be a member of?
3. Sugars such as glucose, fructose, and ribose are examples of _____.
4. Where are lipids found?
5. Plants contain cell walls. What is the polysaccharide in the cell wall that is a dietary fiber?
6. List all the Organic Compounds and their Building Blocks
 1. ____/____
 2. ____/____
 3. ____/____
 4. ____/____
7. Wax, bacon fat, and corn oil are all examples of which organic compound? (protein, carb, lipid or nucleic acid?)
8. If something is polar it **will mix** well with water, so it is called _____; if it does not mix with water it is called _____.
9. What are polysaccharides made up of?
10. List two examples of proteins.
11. What is an example of a disaccharide?
12. Pasta is considered to be which type of organic compound?
13. Any factor that changes the shape of an enzyme can affect the enzyme's activity. what two factors affect an enzyme's operation the most?
14. Nitrogen atoms are part of the structure of some organic molecules, such as all amino acids and some modified carbohydrates. What other organic molecules contain nitrogen?
15. Carbohydrates are composed of which three elements? 1. ____ 2. ____ 3. ____
16. The largest type of carbohydrate molecule is called a polysaccharide; which of the following is an example of a polysaccharide?

17. Siamese cats are characterized by having 6 dark regions on their fur. The darker parts occur on the cooler part of the cats' body because the enzyme that catalyzes the formation of the dark pigment is more active when cold. What does this show enzymes are affected by?

18. In order for cells to function properly, the enzymes that they contain must also function properly. What can be inferred using information on the graph to the right?



20. Carbohydrates, such as glucose, are excellent sources of immediate energy for living organisms. What are some other common uses for carbohydrates? (Think about plants).

21. What are the elements that are common to all living molecules?

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

22. A substrate attaches to this specific part of an enzyme.

23. The basic structure of all cells in living organisms is formed by which organic compound?

24. What would happen to the chemical reactions in our bodies **without** enzymes?

25. What are polysaccharides made up of?

Remember, study this review sheet, notes, worksheets and any unit quizzes for the Unit Test ☺