

Biology  
Quiz #6 Review

Name: \_\_\_\_\_

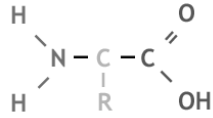
Date: \_\_\_\_\_ Hour: \_\_\_\_\_

1. Organic compounds all contain: \_\_\_\_\_
2. Hair, muscle, and fingernails are made primarily of : \_\_\_\_\_
3. Glucose and fructose are examples of : \_\_\_\_\_
4. All proteins consist of: \_\_\_\_\_
5. Which are the six most common elements in living things? \_\_\_\_\_
6. Steroids are a type of: \_\_\_\_\_
7. Plants store energy (glucose) in a polysaccharide called: \_\_\_\_\_
8. Animals store energy (glucose) in a polysaccharide called: \_\_\_\_\_
9. A nucleic acid that contains information necessary for almost all cell activities: \_\_\_\_\_
10. What are the functions of lipids? \_\_\_\_\_  
\_\_\_\_\_
11. This type of reaction breaks down a polymer into a monomer by adding a water molecule to "cut" the bond:  
\_\_\_\_\_
12. A reaction that bonds two monomers--and at the same time, releases two hydrogen atoms and one oxygen atom which unite to form a molecule of water--is called a:  
\_\_\_\_\_
13. Which organic compounds store and transmit genetic (hereditary) information? \_\_\_\_\_
14. Describe a monomer: \_\_\_\_\_
15. Describe a polymer: \_\_\_\_\_
16. How are monomers and polymers related? \_\_\_\_\_  
\_\_\_\_\_

17. What are the four main classes of organic compounds (macromolecules)? \_\_\_\_\_

\_\_\_\_\_

18. The diagram below is a protein monomer called a(n): \_\_\_\_\_



19. What type of bonds can carbon atoms have? \_\_\_\_\_

20. List the different types of lipids and their functions: \_\_\_\_\_

\_\_\_\_\_

21. Define monosaccharide, polysaccharide and monosaccharide: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

22. Which is the chemical formula for glucose, fructose and galactose? \_\_\_\_\_

23. Draw the three molecule shapes you learned about. What are they called?

24. Explain what polar and nonpolar mean: \_\_\_\_\_

\_\_\_\_\_

25. When two amino acids are linked together with a peptide bond, it is called a: \_\_\_\_\_

26. What is the chemical name for the disaccharide commonly known as table sugar? \_\_\_\_\_

27. All proteins are sensitive to the environment. Heat and pH can cause a protein to become damaged or changed. What is this called?

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