Chapter 24 Review

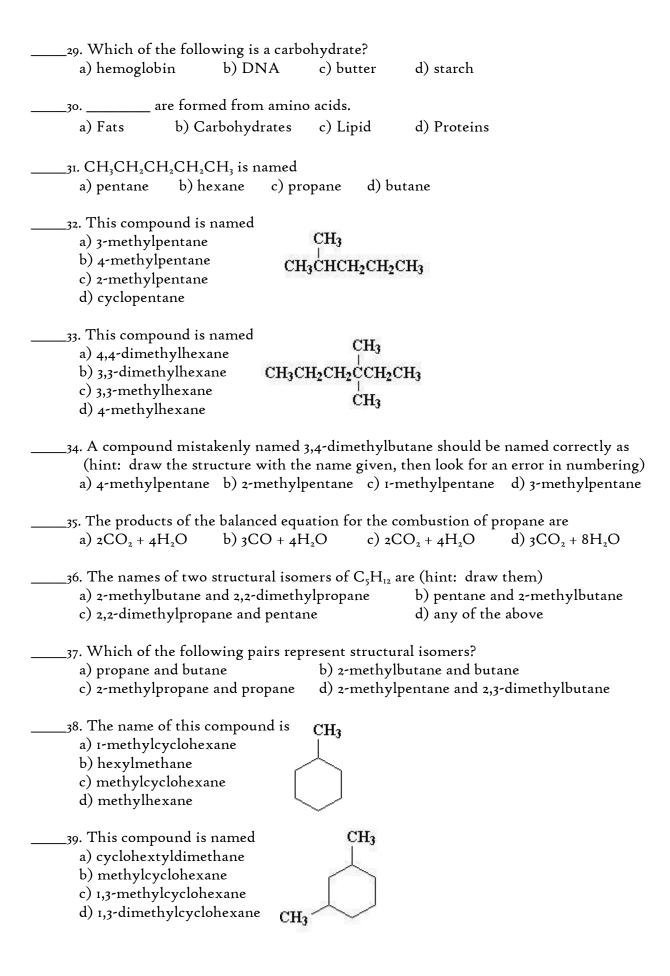
Test Date _____

Read Page 751 in your textbook to review the Main Ideas of the chapter.

- Difference between saturated and unsaturated hydrocarbons
- Identify isomers
- Name organic compounds
- Write molecular formulas for organic compounds
- Difference between hydrocarbons and substituted hydrocarbons
- Types of substituted hydrocarbons
- Monomers and Polymers
- Types of biological compounds (proteins, Nucleic Acids, carbohydrates, lipids)

Matching:			
1. Hydrocarbons with only single bonds			A. Aromatic compounds
2. Hydrocarbons that ha	B. Saturated hydrocarbons		
3. Most compounds that	C. Unsaturated hydrocarbons		
4. Large molecules made that have formed new	D. Substituted hydrocarbons		
5. Organic compounds whose structural formula contain the			E. Lipids
benzene ring			F. Proteins
6. Biological compound atoms as oxygen atom	G. Isomers		
7. Polymers formed from	H. Monomers		
8. Compounds with the	I. Carbohydrates		
molecular structures and shapes			J. Nucleic Acids
9. Polymers that control	K. Organic compounds		
10. Small molecules that	K. Organic compounds		
11. Made up of only carb	L. Hydrocarbons		
12. Biological compound	M. Polymers		
13. Hydrocarbons in who			
Multiple Choice:			
14. Which of the follow	ing compounds is	a hydrocarbon?	
	C_6H_{14}	c) $C_8H_{10}N_4O_2$	d) $C_6H_{12}O_6$
15. Which formula repr		rated hydrocarbon?	d) CH CHCH

16. The compounds CH3OCH3 and CH3CH2OH are isomers of each other. These two compounds must have the same					
a) density		c) melting point	d) molecular formula		
17. All organic compo	ounds must contain th b) oxygen	ne element c) carbon	d) nitrogen		
18. In saturated hydrocarbons, carbon atoms are bonded to each other by a) single covalent bonds, only b) double covalent bonds, only c) alternating single and double covalent bonds d) alternating double and triple covalent bonds					
19. Which structural a) H H-C-H H H H H H-C-C-C-C-C-H H H H H	formula is correct for b) H H H H H H-C-C-C-C-H H H OH H-C-H	2-methyl-3-pentanol: c)	d) H H H H H H H H H H H H H H H H H H H		
20. Carbon forms no	more or no less than _ c) 3		п		
21. What is the smallest alkene? a) methane b) methane c) ethane d) ethene					
22. Alkynes has a) c-c single bond b) c-c double bond c) c-c triple bond d) c-c peptide bond					
23. What is the name of the compound shown in Figure 1? a) propene b) butane c) isopropane d)propane 24. What kind of organic compound is shown in Figure 1? a) aromatic hydrocarbon b) saturated hydrocarbon c) unsaturated hydrocarbon d) substituted hydrocarbon Figure 1					
25. Which of the follo		c) glucose	d) cholesterol		
26. The monomers that make up DNA are called a) peptides b) proteins c) amino acids d) nucleotides					
27. The small molecules that form the links of large molecular chains are called a) monomers b) isomers c) multimers d) polymers					
structures and sha	_		las but different molecular		



Cla	assify each of the following compounds as satu	rated, unsaturated, or substituted hydrocarbons.
40.	hexene	41. isopropyl alcohol
42.	2-chlorobutane	43. cylcooctene
44.	acetic acid	45. 3-dimethylcyclobutene
Sh	ort Answer:	
46.	How is this paper chain a good representation	n of a protein?
47.	Compare and contrast carbohydrates and lipi	ds.
48.	Explain why each of the following is consider ethanol, and acetic acid.	red a substituted hydrocarbon: tetrachloroethane,
49.	List the monomers that make up the following starches.	ng biological polymers: proteins, nucleic acids, and
50.	What are the 'rules' for naming organic comp	pounds?