1. Which element is present in all organic compounds?		8. Compared with the rate of an inorganic reaction, the rate of an organic reaction is usually					
A) nitrogen C) carbon	B) oxygen D) sulfur	A) faster, because organic compounds are ionic.					
2. Which atoms can bond with each other to form chains, rings, or networks?		 B) faster, because the organic compounds are molecules. C) glower because ergenic compounds are ionic 					
A) carbon atomsC) oxygen atoms	B) hydrogen atomsD) nitrogen atoms	D) slower, because organic compounds are fonic.D) slower, because the organic compounds are molecules.					
3. A molecule of an organic compound contains at least one atom of		9. In a given homologous series of hydrocarbons, the boiling point generally increases as the size of the					
A) carbonC) nitrogen	B) chlorineD) oxygen	molecules increases. The best explanation for this statement is that in larger organic molecules					
4. Which element must be present in an organic compound?		A) the number of covalent bonds per molecule is greater					
A) hydrogenC) carbon	B) oxygenD) nitrogen	B) the molecules are more symmetricalC) more hydrogen bonding is possibleD) there are greater intermolecular forces					
5. Which structural formula is <i>incorrect</i>?A) H		10. A compound that is classified as organic must contain the element					
$\begin{array}{c} H - C - CI \\ H \\ H \\ H \\ \end{array}$ $\begin{array}{c} B) \\ H \\ C = C \\ H \\ H \\ \end{array}$ $\begin{array}{c} H \\ C \\ H \\ C \\ H \\ C - OH \end{array}$		A) carbonC) oxygen	B) nitrogenD) hydrogen				
		 11. A general characteristic of organic compounds is that they all A) react vigorously B) dissolve in water C) are strong electrolytes D) melt at relatively low temperatures 					
				$ \begin{array}{c} D) & H & H & H \\ & C = C - C - H \\ H & H & H \end{array} $		12. The four single bonds of a carbon atom are directed in space toward the corners of a	
						A) regular tetrahedronB) regular octahedronC) square planeD) trigonal bipyramid	
6. Which kind of bond is most common in organic compounds?							
A) covalentC) hydrogen	B) ionicD) electrovalent	13. An atom of which eler four other identical ato	ment can bond covalently with oms?				
7. Organic compounds differ from inorganic compounds in that organic compounds generally have		A) lithiumC) fluorine	B) oxygenD) carbon				
A) low melting points and are electrolytesB) low melting points and are nonelectrolytesC) high melting points and are electrolytes							

D) high melting points and are nonelectrolytes

 14. Which statement explains why the element carbon forms so many compounds? A) Carbon atoms combine readily with oxygen. B) Carbon atoms have very high electronegativity. C) Carbon readily forms ionic bonds with other carbon atoms. D) Carbon readily forms covalent bonds with other carbon atoms. 	 22. Organic compounds differ from inorganic compounds in that organic compounds generally have A) high melting points and are electrolytes B) high melting points and are nonelectrolytes C) low melting points and are electrolytes D) low melting points and are nonelectrolytes E) ionic bonds between carbon atoms 	
15. Which substance is an important source of organic chemical products and fuels?A) clockelA) clockel	 23. Compared with the rate of an inorganic reaction, the rate of an organic reaction is usually A) faster, because organic compounds are ionic B) faster, because the organic compounds are molecules C) slower, because organic compounds are ionic D) slower, because the organic compounds are molecules E) slower, because organic compounds are nonpolar 	
 A) alcohol B) benzene C) natural gas D) petroleum 16. What is the maximum number of covalent bonds that can be formed by one carbon atom? A) 1 B) 2 C) 3 D) 4 17. Functional groups are used to classify		
 A) organic compounds B) inorganic compounds C) heterogeneous mixtures D) homogeneous mixtures 18 Which element is present in all organic compounds? 	 24. An organic compound would most likely have A) an ionic crystalline structure B) high electrical conductivity in solution C) a low melting point 	
A) carbonB) hydrogenC) nitrogenD) oxygen	 D) a tendency to react quickly E) a very high boiling point 25. Which is a characteristic of most organic compounds? 	
19. Which element is present in every organic compound?		
A) carbon C) nitrogenB) fluorine D) oxygen20. The compounds 2-butane both containA) double bonds, onlyB) single bonds, onlyC) carbon atomsD) oxygen atoms	 A) They have very strong intermolecular forces B) They are primarily ionic in character C) They are usually nonpolar D) They are all highly soluble in water E) They generally have low melting and boiling points 	

- 21. What is the geometric shape of a methane molecule?
 - A) triangular B) rectangular
 - C) octahedral D) tetrahedral
 - E) bent