Test 1

1. Who is credited with the invention of the modern periodic table?

	A. Nobel B. Mendel C. Mendeleev		
2. The substances that are the result of a chemical reaction are called			
	A. Reactants. B. Products. C. Catalysts.		
3. A substance that is used to speed up a chemical reaction but is not used as part of the reaction is called a			
	A. Reactant. B. Product. C.Catalyst.		
4. After a 0	chemical reaction, the properties of the products are		
	A. The same as the properties of the reactants.		
	B. Different than the properties of the reactants.		
	C.A combination of the properties of the reactants.		
5. A bond where electrons are transferred is called a/an			
A. Covaler	nt bond. B. Ionic bond. C. Transfer bond		
6. The part of the atom involved in chemical bonding is the			
	A. Nucleus. B. Valence electrons. C. Protons.		
7. An atom equal.	n is considered to be when the number of protons and electrons are		
	A. Positive B. Negative C.Neutral		
8. A chemical reaction where energy is released is called			
	A. Endothermic. B. Exothermic.		
9. A chemical reaction in which energy is absorbed is called			
	A. Endothermic. B. Exothermic.		
10 A mma a			
10. A prec			
	A. Gas. B. Liquid. C. Solid substance.		
11 A hono	d that occurs between metals and nonmetals is called a/an		

A. Ionic bond. B. Covalent bond. C. Metal bond. 12. A bond that occurs between nonmetals and nonmetals is called a/an A. Ionic bond. B. Covalent bond. C. Nonmetal bond. **13.** A bond where electrons are shared is called a/an A. Ionic bond. B. Covalent bond. C. Shared bond. **14.** A glowing splint that relights in a test tube tests for this gas. A. Nitrogen B. Hydrogen C. Oxygen **15.** A lighted match put near a test tube that produces a popping sound tests for this gas. A. Nitrogen B. Hydrogen C.Oxygen 16. In the chemical reaction between hydrochloric acid and calcium carbonate, which of the following elements cannot be part of the products? A. Carbon (C) B. Nitrogen (N) C. Chlorine (Cl) D. Hydrogen (H) **17.** Which of the following is an example of a chemical reaction? A. Tearing paper B. Evaporating water C.Baking a cake 18. Lithium, a highly reactive metal, is a member of the alkali metals. Use the periodic table to determine which element would have chemical properties that are similar to lithium. A. Sodium B. Carbon C. Oxygen 19. Which element on the periodic table has physical properties MOST similar to the physical properties of chlorine? A. Sodium B. Oxygen C. Florine 20. What type of metal the element of Lithium corresponds according to the periodic table of elements? A. Alkali earth metal B. Transition metal C. Alkali metal

21. What is the test to distinguish between alkanes and alkenes?

A. Bromine water test

B. keep them near glowing splints				
C. lime water test				
22. What is addition polymerization?				
A. It is the addition of one extra monomer				
B. Polymerization is the process of joining many alkanes together to form a long chain of monomers.				
C. Polymerization is the process of joining many alkenes together to form a long chain of monomers.				
23. What are saturated bonds?				
A. these are single covalent bonds				
B. these are when no more substances can be dissolved in products of oil				
C. these are double covalent bonds				
24. What is the formula for alkenes?				
A. CnH_2n B. CnH_2n_{+2} C. C_2nH_2n				
25. What is the formula for alkanes?				
A. CnH_2n B. CnH_2n_{+2} C. C_2nH_2n				
26. Solid to a liquid is				
A. Melting B. Freezing C. Sublimation				
27. Liquid to a solid is				
A. Melting B. Freezing C. Sublimation				
28. Liquid to a gas is				
A. Melting B. Vaporization C. Sublimation				
29. Solid to a gas is				
A. Melting B. Vaporization C. Sublimation				
30. Gas to a liquid is				
A. Condansation B. Vaporization C. Sublimation				
31. If an atom contains 11 protons and 12 neutrons, its atomic number will be:				

A. 11 B. 12 C. 23				
32. A covalent bond is the result of:				
A. transferring electrons B. transferring protons C.sharing an electron				
33. If an atom gains an electron, it forms a:				
A. positively charged ion B. negatively charged ion. C. covalent bond				
34. Which of the following is an example of a compound?				
A. water B. hydrogen gas C. chloride ion				
35. An ionic bond occurs when one atom:				
A. shares an electron with another atomB. loses a proton and becomes positiveC. transfers an electron to another atom				
36. The cohesion of water is caused by:				
A. ionic bonds B. covalent bonds C. hydrogen bonds				
37. A substance that has a pH lower than 7 would be considered a:				
A. acid B. base C. ion				
38. A carbon atom has six protons but has 7 neutrons, this carbon atom would be called a(n):				
A. acid B. base C. isotope				
39. Water-based liquids can be described as acidic, neutral, or basic, with respect to pH. Which of these describes milk?				
A. Slightly Acidic B. Milk does not have a pH C. Neutral				
40. What is the most common isotope of hydrogen?				
A. protium B. deuterium C. tritium				
41. What is the formula for alkynes?				
A. CnH_2n B. CnH_2n_{-2} C. C_2nH_2n				
42. What type of metal the element of Sodium corresponds according to the periodic table of elements?				
A. Alkali earth metal B. Transition metal C. Alkali metal				
43. Potassium, a highly reactive metal, is a member of the alkali metals. Use the periodic table to determine which element would have chemical properties that are similar to potassium.				

A. Sodium B. Carbon C. Oxygen **44.** What are σ bonds? A. these are single covalent bonds B. these are when no more substances can be dissolved in products of oil C. these are double covalent bonds **45.** What are π bonds? A. these are single covalent bonds B. these are when no more substances can be dissolved in products of oil C. these are double covalent bonds **46.** Which element on the periodic table has physical properties MOST similar to the physical properties of bromine? A. Sodium B. Oxygen C. Chlorine **47.** Who is credited with the invention of the modern periodic table? A. Nobel B. Mendel C. Mendeleev **48.** Which of these elements is a nonmetal? A. Sodium B. Oxygen C. Potassium **49.** A mole contains Avogadro's number of items. What is Avogadro's number? A. 6023 B. 6.02x10²³ C. 6.023x10⁻²³ **50.** Which of these elements is a metal? A. Sodium B. Oxygen C. Sulfur

The key		
1	A	
2	В	
3	С	
4	В	
5	С	
6	В	
7	С	
8	В	
9	A	
10	В	
11	A	
12	В	
13	В	
14	С	
15	В	
16	В	
17	С	
18	A	
19	С	
20	С	
21	A	
22	В	
23	A	
24	A	
25	В	
26	A	
27	В	
28	В	
29	С	
30	A	
31	A	
32	С	
33	В	
34	A	
35	С	
36	С	
37	A	
38	С	
39	С	
40	A	
41	В	
42	С	
43	A	
44	A	
45	С	
46	C	
47	C	
48	В	
49	В	
50	A	