

|  | Question | Answer |
| :---: | :---: | :---: |
| 88. | What is the maximum number of electrons that an atom can have in its outermost energy level? | 8 |
| 89. | What is the maximum number of electrons that can be cound in the first energy level of an atom? | 2 |
| 90. | The temperature at which a solid becomes a liquid is its ___ point. | melting |
| 91. | The process by which gas changes into a liquid is called | condensation |
| 92. | A mixture in which substances are evenly mixed is called a_ | solution(or homogenous mixture) |
| 93. | The three types of electrolytes are acids, bases, and | salts |
| 94. | A family of elements in the periodic table is also called a | group |
| 95. | The lightest element is ___. | hydrogen |
| 96. | Name the molecular compound containing two nitrogen atoms and three oxygen atoms. | dinitrogen trioxide |

## SR-1401 ABCs

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| 1. | Organic chemistry is the study of chemicals containing which element? | B. carbon |
| :---: | :---: | :---: |
| 2. | Mixtures containing particles that are not evenly distributed are called $\qquad$ mixtures | C. heterogeneous |
| 3. | The vertical columns of the periodic table are called | A. families |
| 4. | In the periodic table, periods are arranged | A. horizontally |
| 5. | The unreactive elements of Group 18 in the periodic table are called_ | C. noble gases |
| 6. | "Matter is neither created nor destroyed during ordinary chemical reactions." This is the law of $\qquad$ | B. conservation of mass |
| 7. | Modern atomic theory is based on the atomic theory developed by an English school teacher named John $\qquad$ | C. Dalton |
| 8. | The smallest of the three basic particles in an atom is the | B. electron |
| 9. | Which of the three basic particles in an atom lacks an electrical charge? | B. neutron |
| 10. | The atom number of an element is the number of $\qquad$ in the nucleus of each atom of that compound. | C. protons |
| 11. | Isotopes are atoms of the same element that have different | A. masses |
| 12. | Elements tend to gain, lose or share electrons to become like the | A. noble gases |
| 13. | When no more salt can be dissolved into a container of water, the salt-water solution is said to be: | B. saturated |
| 14. | The first workable periodic table of the elements was developed in 1869 by $\qquad$ | C. Mendeleev |
| 15. | The elements of Group I of the periodic table are known as __. | B. alkali metals |
| 16. | Flourine, chlorine, bromine, iodine, and astatine are known as the | A. halogens |
| 17. | The electrons on an atom that are available to be lost, gained or shared are called $\qquad$ electrons. | C. valence |
| 18. | You can speed up a chemical reaction by using a recyclable substance called $\qquad$ a . | C. catalyst |
| 19. | CH 4 is an example of a ___ formula. | A. molecular |
| 20. | A buffered solution resists changes in___ | C. pH |
| 21. | An ion that consists of several covalently bonded atoms is known as a $\qquad$ bond. | A. polyatomic |
| 22. | $\mathrm{Mg} 2+$ and $\mathrm{Br}-$ combine to form: | C. MgBr 2 |
| 23. | The acid in car batteries is: | B. Sulfuric Acid |
| 24. | Oxyacids always contain oxygen and | B. hydrogen |
| 25. | The symbol for copper is __. | B. Cu |
| 26. | For every one H 2 and O 2 that combines to form H 2 O to form H 2 O , the balanced chemical equation indicates that $\qquad$ H 2 O are formed. | C. two |
| 27. | Decomposition reactions are the opposite of___reactions. | A. synthesis |
| 28. | The most reactive metals are known as___ metals. | A. alkali |
| 29. | The most reactive nonmetals are known as | B. halogens |
| 30. | The attraction of a liquid's surface to a solid's surface is called: | C. capillary action |
| 31. | When particles escape as a gas from the surface of a nonboiling liquid, it is called: | B. evaporation |
| 32. | The change in state from a solid directly to a gas is known as__. | A. sublimation |
| 33. | A substance dissolved in a solution is called the__. | A. solute |
| 34. | A solution that tastes sour and reacts with metals to form hydrogen gas $\qquad$ is . | A. acidic |
| 35. | A solution that tastes bitter and feels slippery is | A. basic |
| 36. | An alkaline solution is__. | B. basic |
| 37. | Which of the following is an nindication that a chemical reaction has occured? | D.All of the above |
| 38. | The pH measures a solutions'_. | A. acidity |
| 39. | True or False:A chemical compound always contains at least two different elements. | true |
| 40. | True or False:The chemical formula of water is variable and depends on whether it is solid, liquid, or gas. | FALSE |
| 41. | True or False: Under the same condition, a given number of particles of any gas, regardless of mass, will occupy the same volume. | true |

43. True or False:The rate at w h ich a solid dissolves in water depends on its FALSE solubility.
hich element has the symbol Na ?

Sodium
45. What is the symbol for Calcium? ..... Ca
46. Sn is the symbol for which element? ..... Tin
. Pb is the symbol for which element? ..... Lead
48. Name the element that has the symbol Fe. ..... Iron
49. When ionic substances dissolve in water, they break into

$\qquad$
ions
. Hydrogen gas combines with oxygen gas to produce water
When two or more substances are blended together the result is called ..... mixture
The study of the chemistry of living things is called

$\qquad$

$\qquad$

biochemistry

53. Any substance that has a definite composition is called a

chemical
$\qquad$

## A chemical compound is defined as two or more chemically combined

elements
The substances that react in a chemical change are called the

$\qquad$
reactants
The substances that are formed in a chemical change are called the ..... products ..... products
57. The two types of pure substances are elements and ..... compounds

$\qquad$
-. protons and neutrons
6. A solution usually consists of a solute that is dissolved into a solvent
61. The atomic number of carbon $(\mathrm{C})$ is 6 . How many neutrons are in one atom 8 of C-14?
An element that has characteristics of both metals and nonmetals is called
$\qquad$
metalloid
The smallest particles of an element that retain the properties of that element are known as $\qquad$
What is the atomic number of C ?
The mass number of an atom is equal to the total number of protons and

- in the nucleus.
Substances that dissolv
When industrial ga
results are called
Name the two elements found in hydrocarbons.

$\qquad$
Table is an arrangement of the elements into groups with similar properties.
hydrogen and carbon
70. What is the mass number of C ?

Periodic
71. Single atoms or groups of bonded atoms with a charge are called ..... 14
ions72. An ion can simply be described as a particle that has
charge73. Positive ions are called
74. Negative ions are called

$\qquad$
anions cations
75. A force that holds atoms together is called a chemical
Electric
called
Electri

called| anions |
| :--- |
| bond |

77. How many atoms are there in a diatomic molecule| 2 |
| :--- |
| 8 |

electrons?How many atoms does it take to form a monatomic ion?80. The negative ion formed from a Flourine atom is calledFlouride
81. Name the compound formed when sodium and oxygen combine. ..... Sodium oxide
82. An ionic compound that is neither an acid nor a base must be a ..... Salt
83. Since so ..... $n+1$

must be
Chlorine is foun
Potassium has the symbol: ..... C. K
86. Hg stands for ..... C. Mercury
87. What substance, found in the air, is needed in order for things to burn? ..... Oxygen

