## Make-up Exam 2

in fixed locations."
a. True

## There is only one best answer to each question.

	(b) False
2)	Which of the following is NOT a crystalline solid?  a. Glass b. Salt c. diamond d. All of the above are crystalline solids
3)	<ul> <li>Which of the following is a liquid matter?</li> <li>a. Helium</li> <li>b. Diamond</li> <li>C. Mercury</li> <li>d. Quartz</li> </ul>
4)	Is the following statement True or False:" Gases always take the shape and volume of their containers."  (a) True  (b) False
5)	Fill in the blanks with the right words: "Pure substances can themselves be divided into two types: and"  a. Elements and molecules b. Atoms and molecules Compounds d. Compounds and mixtures
6)	Fill in the blank with the right word: "The characteristics that distinguish one substance from another are called"  a. Molecules  b. Properties  c. Significant notations  d. Composition

1) Is the following statement True or False: "In liquid, atoms or molecules pack close to each other

d.	A flame	
b.	Apple juice	
<b>(C.)</b>	Water -> Compound	
d.	Salad dressing	
u.	Salad di essing	
8) Which	of the following is a physical property?	
a.	Corrosiveness	
b.	Acidity	
c.	Toxicity	
<b>a</b>	Boiling point	
U,	bolling point	
9) Is the fo	ollowing statement True or False? "Burning is a physical change."	
a.	True	
<b>(D)</b>	False	
100.00		
10) Fill in the blank with the right word: "In an reaction, energy is absorbed."		
а.	Exothermic	
<b>(b)</b>		
С.	Isobaric	
d.	Isochoric	
11) Which of the following is NOT a unit of energy?		
a.	Joules	
b.	Calorie	
C.		
•	All of the above are units of energy	
12) Which	of the following has the highest specific heat?	
a.	Lead	
b.	Gold	
(C.)	Water	
	Aluminum	
G.	, walling and	
12) What :	د اطانه در مراه در مراه در اطانه در مراه در مراه در اطانه در مراه در اطانه در مراه در اطانه در مراه در اطانه در	
13) What is	s the coldest temperature possible?	
<u>a.</u>	0 K	
b.	0 °F	
c.	0 °C	
d.	All of the above are the same number and they represent absolute zero	

7) Which of the following is NOT a mixture?

- 14) Is the following equation correct or incorrect?

  Heat = Mass × Specific Heat Capacity × Pressure Change
  - a. Correct
  - (b) Incorrect
- 15) Fill in the blanks with the right words: "Thomson discovered that ------ are negatively charged, that they are much ----- and lighter than atoms, and they are uniformly present in many different kinds of substances."
  - a. electrons, bigger
  - b. protons, bigger
  - c) electrons, smaller
  - d. protons, smaller
- 16) What are the constituents of atomic nucleus?
  - a. Electrons and protons
  - b. Electrons, protons, and neutrons
  - c. Electrons and neutrons
  - Protons and neutrons
- 17) What are the proton, neutron, and electron's charges?
  - a. Proton=0, electron=1-, neutron=1+
  - (b) Proton=1+, electron=1-, neutron=0
  - c. Proton=1-, electron=1+, neutron=0
  - d. Proton=0, electron=1+, neutron=1-
- 18) Is the following statement True or False?" The group 7A elements, the halogens, are very reactive metals." Normetals
  - a. True
  - (b) False
- 19) What are ions?
  - (a) Charged particles
  - b. Mixtures which have lost or have gained electrons
  - c. Metals and non-metals
  - d. All of the above
- 20) What are isotopes?
  - a. Atoms with the same number of protons and electrons
  - b. Atoms with the same number of neutrons but different number of protons
  - (c) Atoms with the same number of protons but different number of neutrons
  - d. Atoms with the same number of atomic charges

- 21) What does the following equation represent?
  - (Fraction of isotope 1 × Mass of isotope 1) +
  - (Fraction of isotope 2 × Mass of isotope 2) +
  - (Fraction of isotope 3 × Mass of isotope 3) + ...
  - a. Atomic number
  - b. Atomic charge
  - Atomic mass
  - d. Formula mass
- 22) What is the mass of an electron and a proton?
  - ② Electron =  $0.00091 \times 10^{-27}$  kg, Proton =  $1.67262 \times 10^{-27}$  kg
  - b. Electron =  $1.67262 \times 10^{-27} \text{ kg}$ , Proton =  $0.00091 \times 10^{-27} \text{ kg}$
  - c. Electron =  $0.00091 \times 10^{-27}$ , Proton =  $0.00091 \times 10^{-27}$  kg
  - d. Electron =  $1.67262 \times 10^{-27}$  kg , Proton =  $1.67262 \times 10^{-27}$  kg
- 23) Fill in the blank with the suitable word:" Each ------ within the periodic table is a family or group of elements. The elements within a family of main-group elements usually have similar properties, and have a name group"
  - Column
  - b. Alkali metals
  - c. Raw
  - d. Period
- 24) Which of the following is NOT correct?
  - a. Electrical charge is a fundamental property of protons and electrons.
  - b. Positive and negative electrical charges attract each other.
  - c. Positive-positive charges repel each other.
  - (d.) Negative-negative charges attract each other.
- 25) The modern periodic table of elements lists all known elements according to what quantity?
  - a. Relative mass
  - b. Atomic charges
  - c. Atomic mass
  - d. Atomic number