## November 15, 2019 (Test review Questions)

Write question and the answer on your notebook. Show me your work on Monday.

# YOUR TEST ANSWERS TO THE TEST ARE CONSIDERED INVALID FOR ANY VIOLATIONS OF TEST POLICIES.

- 1. (5 points) Write the electron configuration for oxygen (O).
- 2. (5 points) Write the electron configuration for sodium (Na)
- 3. (5 points) How many valence electrons does sodium(Na) have?
- 4. (5points) Write the Lewis Electron dot diagram for sodium(Na).
- 5. (5 points) What is the name used to describe the columns of the periodic table?
- 6. (5 piints) What is the name used to describe the rows of the periodic table?
- 7. (5 points) What is the name used to describe the elements of the first columns of the periodic table?

## Review Test Questions- For the test on Monday 11/19/2019

<b>1. The state of m</b> a. liquid	<b>atter in which a</b> b. solid	material has definite sha c. gaseous d. vapor	<b>ape and def</b> i rous	inite volume is the state.	
2. Matter that is	free to move and	l fills its available volum	ne is in the s	tate.	
a. liquid	b. sol	id c. gased	ous	d. elemental	
<b>3. What type of</b> a. compound	matter is formed b. element	when two or more elem c. heterogeneou	<b>ents chemic</b> as mixture	cally join? d. homogeneous mixture	
4. The law that s	states that mass c	annot be created or des	troyed in or	dinary chemical and physical	
changes is know	n as the law of				
a. conservation of	f mass. b. ma	ss action. c. multi	ple proportio	ons. d. definite composition.	
5. According to t	the Bohr model o	f the atom, which partic	cles can exis	t in any one of a number of energ	5 <b>y</b>
levels.					
a. electrons	b. protons	c. neutrons	d. Bo	oth (b) and (c)	
6. Atoms contair	n equal numbers	of			
a. electrons and n	eutrons.	b. protons and neutron	s.		
c. protons and electrons.		d. protons, electrons, and neutrons.			
7. The line-emiss	sion spectrum of a	an atom is caused by th	e energies r	eleased when electrons	
a. jump from a lo	wer energy level t	o a higher energy level.	-		
b. jump from a hi	gher energy level	to a lower energy level.			
c. jump from the	ground state to an	excited state.			
d. None of the ab	ove				

## 8. The atomic mass unit is used to express

a. atomic mass. b. atomic mass number. c. atomic number. d. molar mass.

## 9. An atom of potassium has 19 protons and 20 neutrons. Its mass number is

#### 10. Which of the following electron configuration for carbon is correct?'

a. $1s^2, 2s^2, 2p^6, 3s^2, 3p^3$ b. $1s^2, 2s^2, 2p^6, 3s^2, 4p^3$ c. $1s^2, 2s^2, 3s^22p^6, 3p^3$ d. $1s^2, 2s^2, 2p^6, 3s^2, 3p^2$	Carbon 6 12.011
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#### 11. The atomic symbol for beryllium is Be, the figure below indicates that the

- a. atomic number is 4.
- b. atomic number is 9.
- c. mass number is 4.

d. atomic number is equal to 9 or 4.



12. Using a J	periodic table	, find the i	identity of the element that has an atomic mass of 40.078 amu.
a. C	b. Ca	c. Cr	d. Cu

**13.** In developing his periodic table, Mendeleev listed on cards each element's name, atomic mass, anda. atomic number.b. electron configuration.c. isotopes.d. properties.

# 14. Mendeleev's periodic table did not always list elements in order of increasing atomic mass because he grouped together elements with similar

a. properties. b. atomic numbers. c. densities. d. colors.

# 15. An electron that is found in the outermost shell of an atom and determines the atom's chemical properties is called a(n)

a. valence electron. b. paired electron. c. p electron. d. octave electron.

# 16. A horizontal row in the periodic table is called a(n) a. family. b. group. c. octet. d. period. 17. The periodic law states that the physical and chemical properties of elements are periodic functions of their atomic a. masses. b. numbers. c. radii. d. structures 18. A vertical column in the periodic table is called a(n) a. family. b. group. c. radii. d. structures

a. family. b. group. c. octet. d. period.

## **19.** Refer to a periodic table. In which period is calcium?

a. Period 2 b. Period 4 c. Period 6 d. Period 8

# 20. Refer to a periodic table. In which group is calcium?

a. Group 1 b. Group 2 c. Group 17 d. Group 18

**21.** An element that has the electron configuration [Ne]3s<sup>2</sup>3p<sup>5</sup> is in which group? a. Group 2 b. Group 5 c. Group 7 d. Group 17

# 22. Elements in the s- or p-blocks of the periodic table are called

a. alloys. b. main-group elements. c. metals. d. transition metals.

## 23. Elements in Group 18 have

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a. very low reactivity.	b. good conductivity.	c. very high reactivity.	d. metallic character.

# 24. Elements in Group 1 that react with non-metals to form salts are

a. alkali-metals. b. halogens. c. lanthanides. d. noble gases.

## 25. The alkali metals are found on Earth only in compounds because they

a. have small atoms.b. are very reactive elements.c. are rare elements.d. are metallic elements.