## **Chemistry Review**

- 1. What are subatomic particles,
  - a. protons
- c. neutrons
- b. electrons
- d. all of the above
- 2. An ion:
  - a. more protons than neutrons
  - b. more electrons than neutrons
  - c. more protons than electrons
  - d. same protons and electrons but different neutrons
- 3. Which atom has the greatest ability to grab an electron?
  - a. S
- c. K
- b. F
- d. He

## Use the following for questions #4-9

B-Dalton C-Thomson D-Rutherford E-Bohr A-Democritus

- 4. First to say the atom was mostly empty space.
- 5. First to use the term, "atom".
- 6. Thought the atom was a tiny sphere.
- 7. Called the atom, "Plum pudding with raisins."
- 8. Put electrons in specific energy levels.
- 9. Did the gold foil experiment.
- 10. Which of the following will react similarly to the way that Be reacts?
  - a. Ca, Sc, Ti
- c. Kr, Kt, Kg
- b. Li, Na, Rb
- d. Mg, Sr, Ca
- 11. An isotope of Be has
  - a. 5 protons.
- c. 6 neutrons.
- b. 3 electrons.
- d. a mass of 9.
- 12. Atoms react to
  - a. become stable.
- c. neither a nor b.
- b. get a full valence shell.
- d. both a and b.

13.	An ion of fluorine has a. 10 protons. b. 10 electrons.		d. 9 e	neutrons. lectrons. th A and B				
14. \		largest? c. B d. C						
15.		nas the great c. Ne d. Cl	test ele	ectron affinity?				
16. \		as the highe c. F d. Ne	st ioniz	zation energy?				
17.	7. All the elements in the same period have a. the same # of valence electrons. b. the same reactivity.  c. the same valence number. d. the same # of energy levels.							
18. <sup>-</sup>		earth is c. K d. Mg						
19. <sup>-</sup>	The Mg2+ ion has a. 10 protons. b. 12 electrons.		d. 10	protons. electrons. her C or D				
20.	Which of the following is a. ductile b. forms negative ion	c. mal	•					
21.	Looking at the periodic a. rows across the tak b. the left side of the t	ole.	c. the	right side of the table. umns going down the table.				
22.	As you go across a per a. goes down. b. goes up.	· · · · · · · · · · · · · · · · · · ·						
23.	Chemical bonding only a. the nucleus. b. the energy levels.	c. the	valenc isotop	e shell. De.				

24. (	Oxygen ; a. gains two electrons to be b. reacts with Hydrogen 2 H								
25. l	n the molecule AgCl , the silv a. 2+ c. 1+ b. 2- d. 1-	er must have	a valence nun	nber of;					
26. Which family of the element's reactivity does not increase as you go up or down?									
		c. halogen d. noble gas							
27. Name two elements that react with hydrogen the way oxygen reacts with hydrogen.									
,	a. Li and Na b. S and Se	c. C and Fe d. N and F							
28. <i>I</i>	B. Atomic weights are given as decimals on the periodic table because; a. they include the weight of the electrons. b. they are averages of the stable isotopes. c. both a and b d. neither a nor b.								
29.	Which of the following is not true of the diatomic molecules?  a. They are only diatomic when alone. c. There are seven of them. b. They include only the halogens. d. They are stable.								
<ul><li>30. Which is not true about hydrogen?</li><li>a. It never has a mass greater than 1.</li><li>b. It reacts with oxygen 2 to 1.</li><li>c. It loses one electron to be stable.</li><li>d. It gains one electron to be stable.</li></ul>									
31. /	An isotope of nitrogen can have a. 7 protons and 8 neutrons b. 8 protons and 7 neutrons	<ul><li>c. 7 protons and 8 electrons.</li><li>d. 6 protons and 9 electrons.</li></ul>							
32. Most of the atoms that make up your body are as old as a. you. c. your parents b. the earth. d. the universe.									