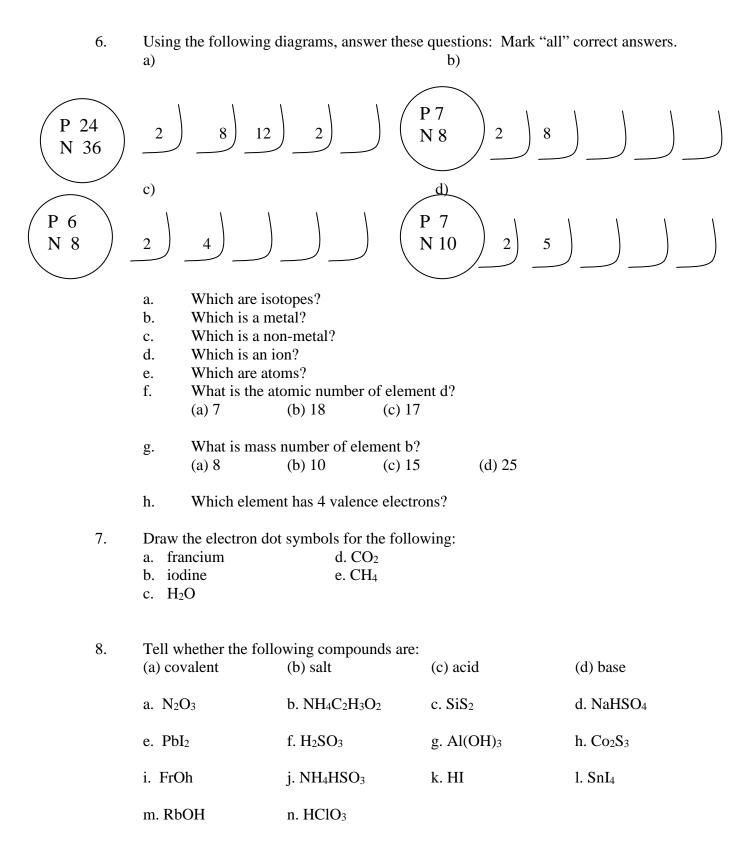
Chem. 100 Exam II (Practice Test)

ATOMIC STRUCTURE:

The following information applies to subatomic particles. If the correct answer is Proton, mark "A," neutron, mark "B," electron, mark "C." If the answer is correct for more than one, mark all correct answers.

correct answers.						
1.	The mass of the particle doesn't weigh enough to worry about.					
2.	The mass of the particles is 1 a.m.u.					
3.	This particle is located outside the nucleus.					
4.	This particle is found only in the nucleus.					
5.	This particle has a charge of -1 .					
6.	This particle has no charge.					
7.	This particle has a charge of +1.					
8.	The symbol of this particle is p ⁺ or H.					
For the	For the following element, $_{30}\text{Zn}^{64}$ answer the following questions related to the configuration.					
1.	The atom contains the following number of shells: (a) 3 (b) 5 (c) 4					
2.	For this atom, shell #3 contains the following number of electrons: (a) 2 (b) 18 (c) 8					
3.	This atom would have the following # of neutrons (in the nucleus): (a) 30 (b) 64 (c) 34					
4.	This atom would have the following # of electrons (total): (a) 30 (b) 34 (c) 64					
5.	This atom would have the following # of protons (in the nucleus): (a) 34 (b) 64 (c) 30					



9.	The name of the follo (a) Sand disulfide (d) Tin disulfide	· ·			(c) Silicon disulfide
10.	The name of the following co (a) Sodium trioxide (d) dinitrogen oxide		nd, N ₂ O ₃ is: inickel oxide nitrogen trioxid	(c) Nitrogen trioxide	
11.	The name of the following co (a) Lithium acid (d) Lithium bicarbonate		nd LiHCO3 is: ithium carbonat ead dicarbonate	(c) Lead carbonate	
12.	The name of the follo (a) ammonia acetate (d) ammonia acid	(b) ar	nd NH ₄ C ₂ H ₃ O ₂ nmonium aceta nmonium acid	(c) ammonium acetic	
13.	The correct formula to (a) CCl ₃ (b) CC	-			e is: (e) Ca ₄ Cl
14.	The correct formula fa (a) KHSO3 (b) KH	-	und, potassium l ₂ SO ₃ (d) K ₂		is: (e) PSO ₃
15.	The correct formula for the compound Tin (II) hydroxide is: (a) Ti(OH) ₂ (b) Sn(OH) ₂ (c) Ti ₂ OH (d) Sn ₂ OH (e) none of these are correct				
16.	The correct formula for the compound nickel II chlorate is: (a) N ₂ ClO ₃ (b) NiClO ₄ (c) Ni ₂ ClO ₃ (d) NClO ₄ (e) none of these are correct				
17.	How many total ions does the compound NaHSO ₄ contain? (a) 3 (b) 6 (c) 2				
29.	How many carbon ions are there in this compound, C ₂ Br ₆ ? (a) 2 (b) 0 (c) 8				
30.	How many acetate ions are there in this compound, NH ₄ C ₂ H ₃ O ₂ (a) 1 (b) 5 (c) 2			H ₃ O ₂ ?	
31.	How many hydroxid	How many hydroxide ions are in the following compound? (NH ₄) ₂ S?			
	(a) 2	(b) 0		(c) 3	
32.	The molecular mass (mass of 1 molecule) of CO is:				
	(a) 28g (b) 28 a.m.u.	(c) 28 moles	(d) 12 a.m.u.	(e) 6.02	2×10^{23}

33.		The molar mass (mass of 1 mole) of CO is:						
	(a)	28g	(b) 28 a.m.u.	(c) 28 moles	(d) 12 a.m.u.	(e) 6.02×10^{23}		
34.		The m	olar mass of A	1(OH) ₃ is:				
	(a)	87	(b) 46	(c) 78	(d) 64	(e) 108		
35.	Th	e molar	mass of NH ₄ H	ICO ₃ is:				
	(a)	79	(b) 47	(c) 97				
36.	Th	e mass	(in grams) of 3	.0 moles of zin	c is:			
	(a)	169.2	(b) 19	2.6	(c)196.2			
37.		How many moles of NO ₂ are there in 9.2 grams of NO ₂ ?						
		(a) 0.2		(b) 2.0	(c) 0.	02		
38.		What is the mass (in grams) of 15.0 moles of H ₂ O?						
		(a) 27		(b) 720	(c) 27	70		
39.	•	How r	How many moles of oxygen are there in 8g?					
		(a) 0.5	.	(b) 0.25	(c) 0.	75		
Inte	er- a	and intr	raparticle forces	s:				
40.	•	The m	easure of an at	om's attraction	for the electro	on in a bond is called:		
		(a) ele	ctron affinity	(b) ele	ectronegativity	(c) electron attraction		
41.		On the periodic chart, the electronegativity as you proceed from left to ri (a) increases (b) decreases						
42.	•	Which of the following elements has the greater electronegativity?						
		(a) Be		(b) C	(c) F			
43.	•	Which of the following elements has the greater electronegativity?						
		(a) Na		(b) Rb	(c) Fr			
44.	•	On the periodic chart, the electronegativity, as you go from the top of t chart to the bottom.						
		(a) inc	reases	(b) decreases				

45.	Chemical bond that ar Ionic bond		om the sharing o valent bond		rons between 2 atoms is called: (a) (c) Ion-Dipole
46.	The attraction between the partially positive end of 1 polar molecule and the partially negative end of another polar molecule is called:				
	(a) Dipole-Dipole		(b) Ion-dipole		(c) Dipole-induced-dipole
47.	London forces is the attraction between:				
	(a) 2 atoms		(b) 2 ions		(c) 2 polar molecules
	(d) nonpolar molecule	es	(e) a molecule	and an	ion
48.	The "strongest" of all of the 7 bonds/forces studies is the:				is the:
	(a) ionic bond		(b) covalent bo	ond	(c) hydrogen bond
49.	A dipole-dipole is the attraction between:				
	(a) molecule/ion	(b) pol	ar/nonpolor mol	lecule	(c) 2 polar molecules
50.	The hydrogen bond, dipole-dipole, dipole-induced dipole, and London forces are all attractions between:				dipole, and London forces are all
	(a) molecules	(b) ion	S	(c) ato	ms