## MOCK for Quiz-2 CHEM 101 1<sup>st</sup> term 1438-2016

1- W	hich of the following		out a neutron?				
	A) It has a positive						
	B) It is much more masse than an electron.						
	C) It is often associated with protons.						
	D) It is more diffic	cult to detect	than a proton o	r an electron.			
2) WI	nich of the following o	elements has a	n atomic number o	of 26?			
	A) K		C) Fe				
	B) Ca		D) Br				
3) Who in 1909 showed the charge on the electron, by oil drop experiment?							
	A) Ernest Rutherford.		C) Niels Bohr.				
	B) John Dalton.		D) Robert A. Mil	likan,			
4) An	4) Anions are formed when atoms						
	A) Gain of protons.		C) Gain of electrons.				
	B) Lose of neutrons.		D) Lose o	f electrons			
5) Ho	w many total atoms a	are in the form	ula (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ?				
	A) 7	B) 12	C) 8	D) 15			
6) An	nong the following su	bstances, the o	ne that is <u>not</u> a co	mpound is:			
	A) H <sub>2</sub> O	B) Cl <sub>2</sub>	C) MnO <sub>2</sub>	D) CO <sub>2</sub>			
7) Ch	lorine is considered v	which of the fol	llowing?				
	A) atomic element		C) molecular elen	nent			
	B) molecular compo	und	D) ionic compour	nd			
8) WI	nat is correct name of	f the compound	d whose formula is	$P_4O_6$ ?			
	A) Phosphorous oxide		C) Tetra phosphorous oxide				
	B) Phosphorous hexe	oxide		phosphorous hexoxide			
9) Ho	w many atoms are in	3.50 moles of	Ca?				
	A) $6.02 \times 10^{23}$		C) $0.581 \times 10^{-23}$				
	B) $2.10 \times 10^{24}$		D) $3.49 \times 1024$				
10) C	alculate the molar ma	ass of sodium s	sulphate Na <sub>2</sub> SO <sub>4</sub> .				
,	A) 59 g/mol		9 g/mol				
	B) 71 g/mol	D) 14	2. g/mol				
11) T	he molecular formula	a of a compoun	ıd:				
e e	A) Indicates the simplest ratio of atoms in the compound						
	B) Indicates the actual number of atoms in the compound						
	C) Indicates the structure of the molecule.						
	D) Is the same as the empirical formula.						

A) $1S^2 2S^2 2P^5$ B) $1S^2 2S^2 2P^6$	C) 1S <sup>2</sup> 2S <sup>2</sup> 21 D) 1S <sup>2</sup> 2S <sup>2</sup> 21	$P^6 3S^2 3P^6 4S^2$					
13) The chemical formula for iron(II) oxide is:							
A) $Fe_2O_3$ B) $Fe_2$		O <sub>2</sub> [	D) <mark>FeO</mark>				
14) What is the mass percent of calcium in CaSO <sub>4</sub> ?							
A) 19.4% B) <mark>29.</mark>	4% C) 39	.4% L	D) 49.4%				
A) H <sub>2</sub> O B) Mg	-	<sub>2</sub> O [	D) CaF <sub>2</sub>				
16) The coefficients (a, b, c, d) needed to balance the equation [a PbCl <sub>3</sub> + b Ca(OH) <sub>2</sub> $\rightarrow$ c CaCl <sub>2</sub> + d Pb(OH) <sub>3</sub> ] are:							
A) 3, 2, 2, 2	B) <mark>2, 3, 3, 2</mark>	C) 4, 2, 2, 4	D) 4, 3, 3, 2				
17) In a chemical bond, the polarity of it can be specified by:  A) electron affinity  B) ionization energy  C) electronegativity  D) metallic character							
18) Group 1A metals in their A) +2 B) -	-		dation state of: D) +1				
19) The resulting bond due to transfer of electron is:  A) non polar covalent B) polar covalent C) ionic D) Metallic							
20) Substance that produces H+ ion is called:							
A) acid B) b		lkali I	D) antacid				
21) A proton that associates with water has a form:							
A) $H^+$ B) $C$	OH <sup>+</sup> C) <mark>H</mark>	$\frac{\text{H}_3\text{O}^+}{\text{I}_3}$	$O) O_3$				
22) 105 g of MgCl <sub>2</sub> contains mol MgCl <sub>2</sub> .							
A) 105 B) 6.	$62 \times 1023$	C) 1.10	D) 1.76				
23) What is the molarity of a solution containing 5.00 moles of KCl in 2.00 L of solution?							
A) 2.50 M B) 1.	00 M C) 5	.00 M	D) 10.0 M				
24) Which of the following is the weak electrolyte?							
A) $HNO_3$ B) H			D) HCl				
25) LiOH can be classified as a(n)							
A) gas B) solid	C) weak electroly	te D) stro	ing electrolyte				