MOCK for Quiz-2 CHEM 101 1st term 1438-2016

"With Answers"

1- Which of the following is false	about a neutron?			
→ A) It has a positive charge				
B) It is much more masse than an electron.				
C) It is often associated with protons.				
D) It is more difficult to dete	ect than a proton	or an electron.		
2) Which of the following elements ha		of 26?		
A) K	\rightarrow C) Fe			
B) Ca	D) Br			
3) Who in 1909 showed the charge on		drop experiment?		
A) Ernest Rutherford.	C) Niels Bohr.			
B) John Dalton.	→ D) Robert A. M:	illikan.		
4) Anions are formed when atoms				
→ A) Gain of protons.		C) Gain of electrons.		
B) Lose of neutrons.	D) Lose	D) Lose of electrons		
5) How many total atoms are in the fo				
A) 7 B) 12	C) 8	→D) 15		
6) Among the following substances, the one that is <u>not</u> a compound is:				
A) $H_2O \longrightarrow B$) Cl_2	C) MnO ₂	D) CO ₂		
7) Chlorine is considered which of the				
	A) atomic element \longrightarrow C) molecular element			
B) molecular compound	D) ionic compo	and		
8) What is correct name of the compo	und whose formula	is P ₄ O ₆ ?		
A) Phosphorous oxide C) Tetra phosphorous oxide		phosphorous oxide		
B) Phosphorous hexoxide	→D) Tetra	phosphorous hexoxide		
9) How many atoms are in 3.50 moles	of Ca?			
A) 6.02×10^{23}	C) 0.581×10^{-23}	C) 0.581×10^{-23}		
\longrightarrow B) 2.10 × 1024	D) 3.49×10^{24}			
10) Calculate the molar mass of sodiu	m sulphate Na ₂ SO ₄ .			
A) 59 g/mol C) 119 g/mol				
B) 71 g/mol \longrightarrow D)	142. g/mol			
11) The molecular formula of a compo	ound:			
A) Indicates the simplest ratio of atoms in the compound				
B) Indicates the actual number of	<u>-</u>	und		
C) Indicates the structure of the i				
D) Is the same as the empirical formula.				

A) 1S ² 2S ² 2P ⁵ → B) 1S ² 2S ² 2P ⁶		2 2S 2 2P 6 3S 2 3P 6 4S 2 2S 2 2P 3		
13) The chemical formula fo A) Fe ₂ O ₃		C) FeO ₂	→D) FeO	
14) What is the mass percen A) 19.4%		? C) 39.4%	D) 49.4%	
15) An example of a molecu \rightarrow A) H_2O	lar compound is: B) MgO	C) Na ₂ O	D) CaF ₂	
16) The coefficients (a, b, c, d) needed to balance the equation $[a \text{ FeCl}_3 + b \text{ Ca(OH)}_2 \rightarrow c \text{ CaCl}_2 + d \text{ Fe(OH)}_3] \text{are:}$				
A) 3, 2, 2, 2	→ B) 2, 3, 3, 2	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 —C) electronegativity B) ionization energy D) metallic character				
18) Group 1A metals in A) +2	their compounds B) -2	always have an ox		
19) The resulting bond due to transfer of electron is: A) non polar covalent B) polar covalent →C) ionic D) Metallic				
20) Substance that prod				
→A) acid	B) base	C) alkali	D) antacid	
21) A proton that assoc A) H ⁺			D) O ₃	
22) 105 g of MgCl ₂ cont	ains mo	ol MgCl ₂ .		
A) 105	B) 6.62×10^{23}	\rightarrow C) 1.10	D) 1.76	
23) What is the molarit solution?	y of a solution con	ataining 5.00 moles	s of KCl in 2.00 L of	
\rightarrow A) 2.50 M	B) 1.00 M	C) 5.00 M	D) 10.0 M	
24) Which of the follow A) HNO ₃	ing is the weak eld B) HBr	•	D) HCl	
25) LiOH can be classif				
A) gas B) so	na C) weak ele	ectrolyte \rightarrow D) st	rong electrolyte	