

Information You May Need:

100 cm = 1 m

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Question 1 4 Points	A field Using	d is found to have unit analysis, shov	an area (v what th	of 1,00 ne area	00 m ². of the 1	field is	in cm ².					
Question 2 8 Points	A nucleus has 34 protons and 43 neutronsHow many electronsFill in the three blanks to complete thethis atom possess?atomic symbol								rons does 285?			
Question 3 4 Point	What is the charge (both magnitude and sign) of the ions formed from the following atoms?											
	1.	Potassium				2.	Alum	ninum		_		
	3.	Se				4.	Be			_		
Question 4	Give the correct chemical formula and charge for the following polyatomic ions.											
12 Points	1.	Cyanide			2.	Chlor	rate			_		
	3.	Nitrate			4.	Sulfi	te					
	5.	Carbonate			6.	Amm	onium			_		
Question 5 6 Points	1. 2. 3	Alkali Metal Transition Metal Noble Gas	Use [.] class (i.e. 1	the num ification Na, 1)	bering : ns for t	scheme he follo	on the owing e	e left to element	o give tł s.	ie best		
lot Her	3. 4.	Non Metal		۵.	Fe			d.	S			
Do N rite	5. 6	Halide Alkali Farth Met	al	b.	Xe		_	e.	к			
M	7.	Metalloid		c.	Be		_	f.	F			
Question 6 9 Points	Give † 1. 2. 3.	he correct chemic CuNO2 NH4OH Al2O3	al name ·	for the	followir	ng ionic	compc 	ounds.				

Question 7	Give the correct name or formula for the following covalent compounds.									
8 Points	1. SO ₃									
	2. Dinitrogen tetraoxide									
	3. Boron trifluoride									
	4. CF ₄									
Question 8 4 Points	The balanced chemical equation for the reaction between glucose and oxygen is									
	We can interpret this to mean that moles of avvicen and mole of CH40C									
	we can interpret this to mean that moles of oxygen and mole of c611206									
	react to produce moles of water and moles of carbon dioxide									
Question 9	When the following chemical equations are balanced using the smallest possible integer									
9 Points	coefficients, the values of these coefficients are:									
	1CH ₄ (g) +O ₂ (g) =CO ₂ (g) +H ₂ O(I)									
	2 Fe(s) + $CO_2(g)$ = Fe ₂ $O_3(s)$ + $C(s)$									
	3CH ₃ OH (g) +O ₂ (g) =CO ₂ (g) +H ₂ O(l)									
Question 10	What is the percent by weight of carbon in $C_6H_{12}O_6$?									
(*******)										
ot lere										
o N te H										
Wri										
	Ans:									
Question 11	How many GRAMS of iron(II) chloride are present in 0.48 moles of this compound ?									
(0101113)										
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	Ans:									

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Question 12 (10 Points)	How many GRAMS of nitrogen are present in 72.6 grams of dinitrogen tetrafluoride ?
	Ans:
Question 13 (6 Points)	A compound is found to contain 10.85 % silicon , 27.40 % chlorine , and 61.75 bromine % by weight. What is the empirical formula for this compound?
Question 14	Empirical formula:
4 Points	CaO NaF Al_2S_3

Question 15 4 Points	A compound is found to contain 22.32% Vanadium (element #23) and 77.68% chlorine. What is the charge on the Vanadium atom?
	Charge:

