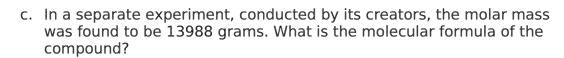
AP Cham =]		Name:	
Chapter 1-4 k Version Aamo	CilleReview by G. and Alex B.	Period:	
Do not give help or receive on this test, or else you'll end up losing your curve. :P No calculators allowed. If you are caught using onewe won't need one to calculate your grade. Muhahahahaha!			
Concept MC: picked what y	Answer the following questions, with a you picked.	statement defining why you	
Matter a. b. c. d.	of these ideas/concepts is not part of D? Each element is composed of extremely Atoms of an element are not created, d atoms of another element through ordin All atoms of a given element are identic elements and have different properties Compounds are formed when elements combine; a given compound has the sa atoms. All of the above are true.	y small particles called atoms. lestroyed, or changed into nary chemical reactions. cal, and the atoms of different with atoms of an element	
Answer:			
a. b. c. d.	of the following is true about the cathor Electrons move from anode to cathode. It doesn't require electricity. Magnetism deflects the cathode rays. The charge of the cathode ray is positiv All of the above are true.		
Answer:			
,	the set of statements which are true: I. Beta rays have a positive charge II. Gamma rays do not have particle III. Alpha particles are positive IV. Alpha particles are bigger than b	es and carry no charge	

<u>Concept FRQ</u>: Answer the following question with a series of statements.

1) What particles were used in Rutherford's gold foil experiment, and why?

2) What conclusion did the gold foil experiment reach, and how did Rutherford use the results to state this conclusion?
Computational MC: Answer the following questions, keeping in mind sig figs.
 Theoretical element Aamoynium is now the heaviest of the Noble Gases. One of its ions is Ay¹⁸⁺. Which of the following elements has the same number of electrons? a. Lr³⁻
b. Rn ¹⁴⁻ c. Bk ³⁻ d. Ab ³⁺
e. None of the above
Answer:
 Which of the following compounds would you expect to be ionic? a. None of the below. b. CCl₄ c. RbBr d. NaCl₂ e. KS₂
Answer:
 3) Which of the following compounds do you expect to be molecular? a. None of the below. b. NaNO₃ c. NaLi d. CCl₄ e. ZnCl₃
Answer:

consi a. b. c. d.	e complete combustion of heptyne, how many moles of oxygen are umed? 1 mole 7 moles 10 moles 6 moles None of the above
amu, 120 a Babs a. b. c. d.	rally occurring [theoretical] Babsium, ²⁰² Bb occurs naturally with 1.5*10 ² 66% of the time, ²⁰⁰ Bb with 300. amu 33% of the time, and ¹⁹⁸ Bb with amu 1% of the time. What is the approximate average atomic mass of ium? 2.0*10 ² amu 201.2 amu 200 grams 201. grams None of the above
Answer:	
Computatio	nal FRQ: Answer the following questions showing all of your work.
 Theoretical elements Aamoynium and Bagdasarium are in a compound containing 66.7% and 33.3% respectively. Their molar masses are 622.8 grams and 232.3 grams respectively. a. What is the empirical formula? 	
	Ay_3Bg_4
b.	What's the mass of the empirical formula?
	2797.6 g



 $Ay_{15}Bg_{20}$

d. Based on this molecular formula, how many grams of solute would be required to make an 18M solution in 7L?

35969.14 g

e. Assuming the solution is fully dissociated, how many moles are there of each of the constituent elements?

Ay = 24.752 mol

Bg = 88.480 mol

<u>Balancing Chemical equations:</u> Balance the following equations and remember to reduce them to their net ionic form! This part is optional, so do it only if you are pro enough! :P

:P	
a.	A solution of potassium iodide is electrolyzed.
b.	Octyne goes through complete combustion.
c.	Butene undergoes incomplete combustion.
d.	Solid sodium chloride is added to a solution of 22M potassium hydroxide.
e.	Sodium Hydroxide crystals are added to de-ionized water.
f.	A solution of 3M potassium iodide is added to a solution of 2m lead(II) nitrate.