Essay #2 Suppose that a stable element, atomic number 120, symbol St (sartepin (a) Would St be a metal or a non-metal? Explain/justify your answer. (b) What would be the most likely charge of the St ion in stable ionic (c) An isotope of St has a mass number of 293. How many neutrons d (d) Write the formula for the compound formed between St and the ox (e) Using your solubility rules, would sartepium oxalate be soluble in		
A. It would be an alkaline-car	th metal	
B. Z+		
C. 173	es es a donc I for the man	
D. 500 St C204		
E. It would be insoluble		2021 11
		11.8
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	50.0 - 10AL	\
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		.0.7 .2
-= X = 7,4X = 10	114-11.00-40	

CHI - 15 NF + 500F + 7HF + 35

166 - Jah + 5000 - 500

CALC

 (a) Write the complete balanced chemical (b) Write the net-ionic equation for the real (c) What is the formula of the precipitate? (d) What substance is the limiting reagent (e) What mass of precipitate formed? (f) Determine the concentration of each ion 	?		
A. PO(NO3)2 -	- NazCO3 -	PbcO3+	ZNaNO3
B. Pbz+ +	CO3 PbC	03	
7.4	Og 3150.0	= (0122.2	D OFFICE :
500 NOO 2 F F SWILD	Hefost.	0 = /20.3) 888H./ :
D. 0.40 - X	0.9	80 = X	
8801.135	FO11.0 - 2180	0 - 175	- 0288.8 :
Huma		LOMM OS	
Pb(NO3)2 is the	re Limiting Reacy	0.037	5000-1 10.51
Pb(NO3)2 is the E. 0.0140ml Pb(NO3)) Imp Pbca	267.21 32 1 md 7	2000.1 10.51
Pb(NO3)z is the E. Dollon Pb(NO3)) Imp Pbca	50.21 FAP 267.21	9 PLCD2 20 DECO3
F. No: RONGE	I mal Pb(NX	100.01 1267.21 132 1 md 7	3.749 860
E. 0.0140ml Pb(100)	I mal Pb(NX	20x2=40	3.749 860
E. No: 2016 BA	2 PP (NO5) - 1 1	20x2=40	3,74gPbC

Essay #4:

Answer the following questions that relate to the analysis of chemical compounds.

(a) A compound containing the elements C, H, N, and O is analyzed. When a 3.5560 g sample is burned in excess oxygen, 6.0838 g of $CO_2(g)$ is formed.

(i) Determine the mass, in grams, of C in the 3.5560 g sample of the compound.

(ii) When the compound is analyzed for O content only, the mass percent of O is found to be 17.76 percent. Determine the mass, in grams, of O in the original 3.5560 g sample of the compound.

(iii) The combustion analysis showed that 1.4338 grams of water was produced. Calculate the percent of hydrogen in the compound.

(iv)Determine the mass, in grams, of N in the original 3.5560 g sample of the compound.

A	cai formula of the compound.		- Car-5	
C: 6.0838	(10.st) = 1,6	602 gC	218000	
		J AL -JO		
0: 0.1776 (3.5560) = 0.	6315 90		
		0		
H: 1.4338 (18.02) = 0.16	Hg FO.	0.1607 -	5.55W ×100=
	X ADD			7,52%
N: 3.5560 -	1.6602-0.63	315 - 0.160	0.881.1 = F()
	Dayley Cat		<u>, , , , , , , , , , , , , , , , , , , </u>	/
خ	0	Н	N	
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