Experiment 5—Post-Lab Assignment

Nan	ne: 🕓	JUIC	JULY VIIIC	17611	VI _						
+	obser T	he sulhe sulhe sulhe fla	known solution pernate in test me test of the lution in test to me test of the lution in test to lution in test to lution in test to	in test tube # white # white # white # 3	t tube #1 1 is pour precipitate plus (NH 2 is pour precipitate plus Na ₂	e remain e remain e remain HPO4 and	H ₄) ₂ So test tu ing in ives a test tu ing in d NaO	D4 give be #2. test tu be #3. test tu H gives	s a white preciple to the #1 produce precipitate. be #2 produce no reaction.	pitate. es a green i	flame.
			Cation(s) pre	esent	<u>69</u>	, 09	-	Ca	tion(s) absent	Mg	
	bser TI TI TI TI	vation he sol he sol he sol he sol he sol	cons (Ba ²⁺ , Ca ²⁺ hs? known solution lution in test tu lution in test tu pernate in test me test of the lution in test tu hite precipitate e solution tests	in test be #2 tube # white p be #3 in test	t tube #1 is poured plus (NH- 2 is pour precipitate plus Na ₂ tube #3	plus (NI l into tes 4)2C2O4 g ed into to e remain HPO4 and dissolve	H ₄) ₂ SO t tube ives a est tu ing in I NaO es in h	#2. white be #3. test tu H gives HCl; ma	no reaction. precipitate. be #2 produce a white precip	s a brick relate. ator and N	ed flame.
			Cation(s) pre	esent	C42+	.Ma2	+	Cat	tion(s) absent	Ba	भ
		the na	ames for the fo			1				has been d	one for you
	a. C	ù+	copper(I) ior	1			b.	Cu ²⁺	Copper	-(II) i	on
	c. F		Inon	II)i			d.	Fe ³⁺	Iron (II	[] 1 Or	
	e. S	n ²⁺	jin (II		nn		f.	Sn ⁴⁺	Jin (I	I) jay	



 Complete the table below as shown by the example. Give the correct formula and name or the compounds using the ions.

	NO ₃ -	SO ₄ ²⁻	PO ₄ ³⁻
Ba ²⁺	Ba(NO ₃) ₂ barium nitrate	Basoy barium sulfate	Baz(PO4)2 barium phosphate
Ca ²⁺	Ca(NO ₃) ₂ Calcium nitrates	CaSO4	Cas(PO4)2 Calcium Phosphate
Mg ²⁺	Ma(NO3)2	M9504	M93(PD4)2 magnesium phospinic

5. Complete the table below as shown by the example. Give the correct formula and name or the compounds using the ions.

	N02	503	P03
	nitrite ion	sulfite ion	phosphite ion
mercury(II) ion 12+ Hg	Hg(NO ₂) ₂ mercury(II) nitrite	Hg2txSO32- Hg2(SO3)2 HgSO31 Mercuny(II) sulfate Fe3+ SD22-	Hg2+DD33- Hg3(PD3)2 Mercury (II) Phosphite
iron(III)	Fe(NO ₂) ₃ Iron(III) nitrate	Fe ₂ (SO ₃) ₃	Fe ³⁺ _x PO ₃ ³⁻ Fe ₃ (PO ₃) ₃ > FePO ₃ Iron (III) Phosphite
lead(IV)	Pb4x NO2- Pb(NO2)4 lead (IV) nitrate.	Pb4+ SO32- Pb2 (SO3)4->Pb (SO3)2 1ead (IV) nitrate	Pby (PO3)4 lead(IV) Phosphito