Name Worksheet 6

Chemistry 121-Worksheet 6

Nomenclature of Covalent and Ionic Compounds (two sided worksheet)

Part 1. Identify if the following compounds are covalent or ionic. If it is ionic write the symbols for the ions involved:

- 1. NF₃ Covalent
- 2. BaO Ionic Ba+2 O-2
- 3. $(NH_4)CO_3$ lonic (NH4)+1 (CO3)-2
- 4. $Sr(H_2PO_4)_2$ lonic Sr+2 (H2PO4)-1
- 5. IBr Covalent
- 6. Na₂O lonic Na+1 O-2

Part 2: For each of the following pairs of ions, write the formula of the compound they will form:

- 1. Ca^{+2} , S^{-2} CaS
- $2. \quad NH_4{}^+, \, SO_4{}^{-2} \quad \text{(NH4)2(SO4)}$
- 3. $A1^{+3}$, Br^{-} AlBr3

Part 3: Name the following covalent and ionic compounds

- $1. \quad K_2S \qquad \text{ potassium sulfide} \\$
- $2. \quad Cu_2O \quad \text{copper(I) oxide} \\$
- 3. AlN aluminum nitride
- $4. \quad MgBr_2 \quad \text{magnesium bromide} \\$
- 5. MnI_2 manganese (II) iodide

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	6.	Na ₃ PO ₄
	7.	KMnO ₄
	8.	Cr(OH) ₃
	9.	ZnSO ₄
	10.	$Sn(NO_3)_4$
	11.	SF ₄
	12.	P_4O_6
Pa	rt 4	. Write formulas for the following covalent and ionic compounds
	1.	Calcium nitride
	2.	Magnesium nitrate
	3.	Potassium nitrate
	4.	Zinc oxide
	5.	Silver perchlorate
	6.	Gold (III) bromide
	7.	Sodium chromate
	8.	Lithium phosphide
	9.	Copper (I) sulfate
	10.	Ammonium sulfite
	11.	Carbon monoxide
	12.	Aluminum oxide
	13.	Lead (IV) carbonate
	14.	Phosphorus pentachloride

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15. Dinitrogen monoxide