Molecular Compounds

Name: _____

Part 1: For the following molecular compounds, if given the name, write the formula. If given the formula, write the name. Also, determine the polarity of the bonds.

Name	Formula	Bond Polarity	Name	Formula	Bond Polarity
	P_2O_5		Nitrogen trifluoride		
	SiI_4		Carbon monoxide		
	OF_2		Dichlorine heptaoxide		
	$SbCl_3$		Carbon tetrabromide		
	H_2O		Trisilicon octahydride		
	NH_3		Dinitrogen monosulfide		
	SCl_6		Diboron trioxide		

Part 2: The following is a mixture of ionic and molecular compounds. If given the name, write the formula. If give the formula, write the name. It may be helpful to use the blank before the number to identify as ionic or molecular.

_____ 1) CS_2

_____ 2) $Ca(NO_3)_2$

_____ 3) Si_2Br_6

_____ 4) Na_3N

_____ 5) Cl_2O

_____ 6) BrF_4

_____ 7) $(NH_4)_3PO_4$

_____ 8) nitrogen trichoride

_____ 9) calcium phosphate

_____ 10) dibromine hexachloride

_____ 11) manganese (V) oxide

_____ 12) dinitrogen tetraoxide

_____ 13) barium sulfate

_____ 14) chromium (III) nitrate

Molecular Compounds

Name: _____

Part 1: For the following molecular compounds, if given the name, write the formula. If given the formula, write the name. Also, determine the polarity of the bonds.

Name	Formula	Bond Polarity	Name	Formula	Bond Polarity
	N_2S_4		Iodine monofluoride		
	CBr_4		Nitrogen triiodide		
	SF_2		Chlorine disulfide		
	PCl_3		Silicon tetrachoride		
	NH_3		Triphosphorous octaoxide		
	OI_2		Dinitrogen monosulfide		
	Si_2H_6		Diiodine heptafluoride		

Part 2: The following is a mixture of ionic and molecular compounds. If given the name, write the formula. If give the formula, write the name. It may be helpful to use the blank before the number to identify as ionic or molecular.

_____ 1) CO_2

_____ 2) Cs_2MoO_4

_____ 3) $GeBr_4$

_____ 4) WF_2

_____ 5) K_2O_2

_____ 6) P_4O_{10}

_____ 7) IF_7

_____ 8) selenium dichloride

_____ 9) dibromine monoxide

_____ 10) sodium iodide

_____ 11) gold (III) thiocyanate

_____ 12) carbon tetraiodide

_____ 13) magnesium bromate

_____ 14) sulfur trioxide