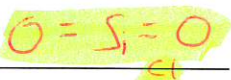



## Molecular Compounds Practice Problems

I. Write names for each of the following molecular substances.

1.  $\text{SiO}_2$ : silicon dioxide 

2.  $\text{PCl}_3$ : phosphorus trichloride 


3.  $\text{SiF}_4$ : silicon tetrafluoride 


(nitrous oxide)


4.  $\text{N}_2\text{O}$ : dinitrogen monoxide 

5.  $\text{SO}_3$ : sulfur trioxide 

6.  $\text{N}_2\text{O}_5$ : dinitrogen pentoxide 


7.  $\text{IF}_5$ : iodine pentafluoride 


8.  $\text{SF}_6$ : sulfur hexafluoride 

9.  $\text{ClO}_2$ : chlorine dioxide 


10.  $\text{P}_4\text{S}_3$ : tetra phosphorus trisulfide 

(nitric oxide)


11.  $\text{NO}$ : nitrogen monoxide 


12.  $\text{SF}_4$ : sulfur tetrafluoride 

13.  $\text{XeF}_4$ : xenon tetrafluoride 

14.  $\text{SbF}_5$ : antimony pentafluoride 


(ammonia)


15.  $\text{NH}_3$ : nitrogen trihydride 

16.  $\text{SO}_2$ : sulfur dioxide 


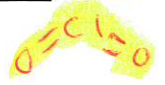






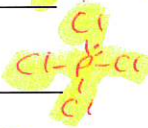
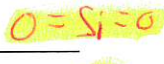
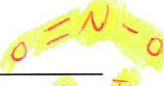

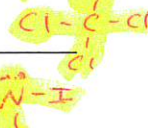


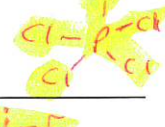


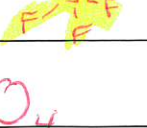
17.  $\text{H}_2\text{O}$ : dihydrogen monoxide 

18.  $\text{CS}_2$ : carbon disulfide 

19.  $\text{CI}_4$ : carbon tetraiodide 

20.  $\text{BCl}_3$ : boron trichloride 

## II. Write the formula for the following molecular compounds.

- dichlorine monoxide :  $Cl_2O$  
- chlorine dioxide :  $ClO_2$  
- carbon disulfide :  $CS_2$  
- selenium dichloride :  $SeCl_2$  
- chlorine trifluoride :  $ClF_3$  
- diboron ~~tri~~oxide :  $B_2O_3$  
- sulfur hexafluoride :  $SF_6$  
- diphosphorous trisulfide :  $P_2S_3$  
- phosphorus tetrachloride :  $PCl_4$  
- silicon dioxide :  $SiO_2$  
- nitrogen dioxide :  $NO_2$  
- sulfur hexaiodide :  $SI_6$  
- carbon tetrachloride :  $CCl_4$  
- nitrogen triiodide :  $NI_3$  
- sulfur trioxide :  $SO_3$  
- phosphorus pentachloride :  $PCl_5$  
- nitrogen trifluoride :  $NF_3$  
- carbon tetrafluoride :  $CF_4$  
- sulfur hexafluoride :  $SF_6$  
- dinitrogen tetroxide :  $N_2O_4$  