

1. Classify the following as ionic or molecular compounds. (3 pts)

a. CoCl_2 _____

b. P_2O_5 _____

c. H_2SO_4 _____

2. Name the following ions (6 points).

a. Ba^{2+} _____

b. Sn^{4+} _____

c. Cr^{3+} _____

d. Ag^+ _____

e. P^{3-} _____

f. I^- _____

3. Write the formula for each of the following compounds. (6 pts)

a. iron(II) nitrite _____

b. sodium sulfide _____

c. dichlorine heptaoxide _____

4. Name each of the following compounds. (10 pts)

a. PbBr_2 _____

b. $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ _____

c. KCN _____

d. $\text{Cu}_3(\text{PO}_4)_2$ _____

e. S_4F_6 _____