(1) a.

1. $AgCl$
2. CaF_2
3. Al_2O_3
4. Fe_2S_3
5. PbO_2
6. $Na_2Cr_2O_7$
7. $Ca(ClO_2)_2$
8. $(NH_4)_3PO_4$

b.

1. ~~Cal~~ calcium oxide
2. cadmium (II) sulphide
3. Calcium phosphide
4. Magnesium nitride
5. manganese (V) oxide
6. mercury (II) chloride
7. tin (IV) nitrate
8. potassium dichromate.

(2) a.

1. SO_3
2. PCl_5
3. N_2O_3
4. H_2O

b.

1. Sulphur hexafluoride
2. dinitrogen tetraoxide
3. dichlorine heptaoxide
4. disulphur dichloride

(3) ★ a.

1. HF
2. ★ H_3BO_3
3. ★ $HClO$
4. ★ H_3PO_3

★ b.

1. hydroiodic acid
2. ★ perchloric acid
3. ★ ~~hydro~~ sulphuric acid
4. ★ acetic acid

(4) a. 1. $MgSO_4 \cdot 7H_2O$

2. $CaCl_2 \cdot 2H_2O$

3. $NaCl \cdot 8H_2O$.

4. $AlCl_3 \cdot 9H_2O$

b. 1. Sodium carbonate decahydrate
2. barium chloride tetra hydrate
3. Sodium sulphate penta hydrate
4. barium hydroxide hexa hydrate

(5) a. 1. NH_4^+

* 2. BrO_3^-

3. CH_3COO^-

4. PO_4^{3-}

b. 1. potassium ion
2. strontium ion
3. carbonate ion
4. Nitrate ion.

Ionic Naming Practice Problems - Solutions

Name the following ionic compounds:

1) $NaBr$ **sodium bromide**

2) $Sc(OH)_3$ **scandium hydroxide**

3) $V_2(SO_4)_3$ **vanadium (III) sulfate**

4) NH_4F **ammonium fluoride**

5) $CaCO_3$ **calcium carbonate**

6) $NiPO_4$ **nickel (III) phosphate**

7) Li_2SO_3 **lithium sulfite**

8) Zn_3P_2 **zinc phosphide**

9) $Sr(C_2H_3O_2)_2$ **strontium acetate**

10) Cu_2O **copper (I) oxide**

11) Ag_3PO_4 **silver phosphate**

12) $YClO_3$ **yttrium chlorate**

13) SnS_2 **tin (IV) sulfide**

14) $Ti(CN)_4$ **titanium (IV) cyanide**

15) $KMnO_4$ **potassium permanganate**

16) Pb_3N_2 **lead (II) nitride**

17) $CoCO_3$ **cobalt (II) carbonate**

18) $CdSO_3$ **cadmium sulfite**

19) $Cu(NO_2)_2$ **copper (I) nitrite**

20) $Fe(HCO_3)_2$ **iron (II) bicarbonate**

(Still) More Naming Practice - Answers

Write the names of the following chemical compounds:

1) BBr_3 **boron tribromide**

2) $CaSO_4$ **calcium sulfate**

3) C_2Br_6 **dicarbon hexabromide**

4) $Cr(CO_3)_3$ **chromium (VI) carbonate**

5) Ag_3P **silver phosphide**

6) IO_2 **iodine dioxide**

7) VO_2 **vanadium (IV) oxide**

8) PbS **lead (II) sulfide**

9) CH_4 **methane**

10) N_2O_3 **dinitrogen trioxide**

Write the formulas of the following chemical compounds:

11) tetraphosphorus triselenide **P_4Se_3**

12) potassium acetate **$KC_2H_3O_2$**

13) iron (II) phosphide **Fe_3P_2**

14) disilicon hexabromide **Si_2Br_6**

15) titanium (IV) nitrate **$Ti(NO_3)_4$**

16) diselenium diiodide **Se_2I_2**

17) copper (I) phosphate **Cu_3PO_4**

18) gallium oxide **Ga_2O_3**

19) tetrasulfur dinitride **S_4N_2**

20) phosphorus **P_4**