

Chem11 Naming Ionic Compounds:W.S.-20

1) Give the formula.

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|-----------------------------|-----------------------------|
| a) potassium chloride _____ | b) hydrogen bromide _____ |
| c) calcium oxide _____ | d) beryllium fluoride _____ |
| e) potassium sulfide _____ | f) aluminum iodide _____ |
| g) barium chloride _____ | h) potassium oxide _____ |

2) Give the formula.

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|-------------------------------|-------------------------------|
| a) copper (II) chloride _____ | b) copper (I) chloride _____ |
| c) iron (III) oxide _____ | d) tin (II) chloride _____ |
| e) cobalt (III) oxide _____ | f) nickel (III) sulfide _____ |

3) Name the compounds.

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|---|----------------------------|
| a) LiCl _____ | b) Na ₂ O _____ |
| c) MgS _____ | d) BeBr ₂ _____ |
| e) CaI ₂ _____ | f) KBr _____ |
| g) FeO _____ | h) FeS _____ |
| i) Fe ₂ O ₃ _____ | j) CuS _____ |

4) Give the formula.

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|-----------------------------|-----------------------------|
| a) calcium carbonate _____ | b) aluminum hydroxide _____ |
| c) sodium phosphate _____ | d) copper (I) sulfate _____ |
| e) iron (III) nitrate _____ | f) lithium dichromate _____ |

5) Name the following compounds.

a) $\text{Al}(\text{NO}_3)_3$ _____

b) Cu_2CO_3 _____

c) H_2SO_4 _____

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

e) FeCO_3 _____

f) NH_4NO_3 _____

g) $\text{Mg}(\text{OH})_2$ _____

h) $\text{Fe}_2(\text{SO}_4)_3$ _____

Answers : 1)a) KCl, b) HBr, c) CaO, d) BeF_2 , e) K_2S , f) AlI_3 , g) BaCl_2 , h) K_2O , 2)a) CuCl_2 , b) CuCl , c) Fe_2O_3 , d) SnCl_2 , e) Co_2O_3 , f) Ni_2S_3 , 3)a) lithium chloride, b) sodium oxide, c) magnesium sulfide, d) beryllium bromide, e) calcium iodide, f) potassium bromide, g) iron (II) oxide, h) iron (II) sulfide, i) iron (III) oxide, j) copper (II) sulfide, 4)a) CaCO_3 , b) $\text{Al}(\text{OH})_3$, c) Na_3PO_4 , d) Cu_2SO_4 , e) $\text{Fe}(\text{NO}_3)_3$, f) $\text{Li}_2\text{Cr}_2\text{O}_7$, 5)a) aluminum nitrate, b) copper (I) carbonate, c) hydrogen sulfate, d) magnesium phosphate, e) iron (II) carbonate, f) ammonium nitrate, g) magnesium hydroxide, h) iron (III) sulfate.