

Name: _____ Date: _____

1. The systematic name for BaH_2 is
 - A) barium dihydrogen.
 - B) barium dihydride.
 - C) barium(II) hydrate.
 - D) barium dihydrate.
 - E) barium hydride.

2. What is the name of the compound whose formula is $\text{Al}_2(\text{SO}_4)_3$?
 - A) aluminum sulfide
 - B) aluminum sulfite
 - C) aluminum sulfate
 - D) aluminum persulfate
 - E) dialuminum tri(sulfur tetraoxygen)

3. The correct name for FeO is
 - A) iron oxide.
 - B) iron(II) oxide.
 - C) iron(III) oxide.
 - D) iron monoxide.
 - E) iron(I) oxide.

4. What is the formula for calcium nitride?
 - A) Ca_3N_2
 - B) Ca_2N_3
 - C) CaNO_2
 - D) $\text{Ca}(\text{NO}_2)_2$
 - E) $\text{Ca}(\text{NO}_3)_2$

5. The chemical formula for iron(III) sulfide is
 - A) $\text{Fe}_3(\text{SO}_3)_2$.
 - B) $\text{Fe}_3(\text{SO}_4)_2$.
 - C) Fe_2S_3 .
 - D) $\text{Fe}_2(\text{SO}_3)_3$.
 - E) $\text{Fe}_2(\text{SO}_4)_3$.

6. The formula for copper(II) phosphate is
- A) CuPO_4 .
 - B) $\text{Cu}_3(\text{PO}_4)_2$.
 - C) $\text{Co}_2(\text{PO}_4)_3$.
 - D) $\text{Cu}_2(\text{PO}_4)_3$.
 - E) $\text{Co}_3(\text{PO}_4)_2$.
7. Choose the name–formula pair that does not match.
- A) sodium sulfite, Na_2SO_3
 - B) calcium fluoride, CaF_2
 - C) potassium permanganate, K_2MnO_4
 - D) aluminum oxide, Al_2O_3
 - E) iron(III) oxide, Fe_2O_3
8. Choose the name–formula pair that does not match.
- A) ammonium hydrogen carbonate, NH_4CO_3
 - B) sodium chlorite, NaClO_2
 - C) calcium hydride, CaH_2
 - D) nitric acid, HNO_3
 - E) calcium hydroxide, $\text{Ca}(\text{OH})_2$
9. The formula for potassium carbonate is
- A) P_2CO_3 .
 - B) K_2CO_3 .
 - C) Po_2CO_3 .
 - D) P_2C .
 - E) K_2C .
10. The formula for magnesium nitride is
- A) MgN .
 - B) MgNO_2 .
 - C) Mg_2N_3 .
 - D) $\text{Mg}(\text{NO}_2)_2$.
 - E) Mg_3N_2 .
11. The correct name for LiCl is
- A) lithium monochloride.
 - B) lithium(I) chloride.
 - C) monolithium chloride.
 - D) lithium chloride.
 - E) monolithium monochloride.

12. The formula for chloric acid is
- A) HClO_4 .
 - B) HClO_3 .
 - C) HClO .
 - D) HClO_2 .
 - E) HCl .
13. Which name–formula pair is incorrect?
- A) H_2SO_3 , sulfurous acid
 - B) HClO_2 , chlorous acid
 - C) H_2CO_3 , carbonic acid
 - D) HBr , hydrobromic acid
 - E) H_3P , phosphoric acid
14. Which name–formula pair is incorrect?
- A) magnesium sulfate heptahydrate, $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
 - B) strontium nitride, Sr_3N_2
 - C) titanium(IV) carbide, TiC
 - D) dinitrogen tetroxide, N_2O_4
 - E) hypochlorous acid, HClO_2
15. Which of the following equations is not balanced?
- A) $2\text{NaCl} + \text{Pb}(\text{NO}_3)_2 \rightarrow \text{PbCl}_2 + 2\text{NaNO}_3$
 - B) $\text{Fe}_3\text{O}_4 + 3\text{CO} \rightarrow 3\text{Fe} + 3\text{CO}_2$
 - C) $(\text{NH}_4)_2\text{Cr}_2\text{O}_7 \rightarrow \text{N}_2 + 4\text{H}_2\text{O} + \text{Cr}_2\text{O}_3$
 - D) $2\text{Sb}_2\text{OS}_2 + 10\text{O}_2 \rightarrow 2\text{Sb}_2\text{O}_5 + 4\text{SO}_3$
 - E) $\text{C}_{12}\text{H}_{22}\text{O}_{11} + 12\text{O}_2 \rightarrow 12\text{CO}_2 + 11\text{H}_2\text{O}$

Answer Key

1. E
2. C
3. B
4. A
5. C
6. B
7. C
8. A
9. B
10. E
11. D
12. B
13. E
14. E
15. B