

Nomenclature Practice Quiz. Answers are on the last page.

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Which is the correct formula for iron(II) phosphate?

- A)  $\text{Fe}_2\text{PO}_4$
- B)  $\text{Fe}_3(\text{PO}_4)_2$
- C)  $\text{Fe}_2\text{PO}_3$
- D)  $\text{Fe}(\text{PO}_4)_2$
- E)  $\text{Fe}(\text{PO}_3)_2$

2. Which of the following is the formula for hydroiodic acid?

- A)  $\text{HIO}_4$
- B)  $\text{HIO}_3$
- C)  $\text{HIO}_2$
- D)  $\text{HIO}$
- E)  $\text{HI}$

3. The formula for calcium phosphate is

- A)  $\text{CaPO}_4$ .
- B)  $\text{Ca}_3(\text{PO}_4)_2$ .
- C)  $\text{Ca}_2(\text{PO}_4)_3$ .
- D)  $\text{Ca}_3\text{P}_2$ .
- E)  $\text{Ca}_3(\text{PO}_3)_2$ .

4. The formula for magnesium sulfate is

- A)  $\text{MnS}$
- B)  $\text{MgS}$
- C)  $\text{MnSO}_3$
- D)  $\text{MgSO}_4$
- E)  $\text{MgSO}_3$

5. The formula for sodium sulfide is

- A)  $\text{NaS}$ .
- B)  $\text{K}_2\text{S}$ .
- C)  $\text{NaS}_2$ .
- D)  $\text{Na}_2\text{S}$ .
- E)  $\text{SeS}$ .

6. The name for  $\text{NH}_4\text{NO}_3$  is
- A) ammonium nitrate.
  - B) ammonium nitrogen trioxide.
  - C) ammonia nitrogen oxide.
  - D) hydrogen nitrogen oxide.
  - E) hydrogen nitrate.
7. The name for  $\text{Ba}(\text{OH})_2$  is
- A) barium hydrogen oxide.
  - B) boron hydroxide.
  - C) barium hydrate.
  - D) beryllium hydroxide.
  - E) barium hydroxide.
8. The name for  $\text{KHCO}_3$  is
- A) calcium bicarbonate.
  - B) calcium carbonate.
  - C) potassium carbonate.
  - D) calcium hydrogen carbon trioxide.
  - E) potassium hydrogen carbonate.
9. The name for  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  is
- A) copper sulfate acid.
  - B) copper sulfate pentahydrate.
  - C) copper(II) sulfate acid.
  - D) copper(II) sulfate pentahydrate.
  - E) copper(V) sulfate hydrate.
10. Give the formula for cobalt(II) chlorate dihydrate
- A)  $\text{CoCl}_2 \cdot 2\text{H}_2\text{O}$
  - B)  $\text{CoClO}_3(\text{H}_2\text{O})_2$
  - C)  $\text{Co}(\text{ClO}_3)_2(\text{H}_2\text{O})_2$
  - D)  $\text{Co}(\text{ClO}_3)_2 \cdot 2\text{H}_2\text{O}$
  - E)  $\text{Co}_2(\text{ClO}_3)_3 \cdot 2\text{H}_2\text{O}$
11. Name the compound  $\text{Co}(\text{NO}_3)_2$
- A) Cobalt (I) nitrate
  - B) Cobalt (II) nitrate
  - C) Cobalt (I) nitride
  - D) Cobalt nitrite
  - E) Cobalt (II) nitride

12. Name the compound  $\text{Al}_2\text{O}_3$
- A) Aluminum oxide
  - B) Aluminum (II) oxide
  - C) Dialuminum trioxide
  - D) Aluminum trioxide
  - E) Aluminum (I) oxide
13. Which is the formula for lead(IV) chloride?
- A)  $\text{Pb}_4\text{Cl}$
  - B)  $\text{PbCl}_2$
  - C)  $\text{PbCl}_3$
  - D)  $\text{PbCl}_4$
  - E)  $\text{Pb}_2\text{Cl}_4$
14. Name the acid  $\text{H}_3\text{PO}_4$  (dissolved in water).
- A) Phosphoric acid
  - B) Phosphorous acid
  - C) Hydrogen phosphate acid
  - D) Hydrophosphate acid
  - E) Hydrophosphoric acid
15. Name the acid  $\text{H}_2\text{SO}_3$  (dissolved in water).
- A) Sulfuric acid
  - B) Sulfurous acid
  - C) Hydrosulfuric acid
  - D) Persulfuric acid
  - E) Hyposulfurous acid
16. The chemical formula for iron(II) nitrate is
- A)  $\text{Fe}_2(\text{NO}_3)_3$
  - B)  $\text{Ir}(\text{NO}_2)_2$
  - C)  $\text{Fe}_2\text{N}_3$
  - D)  $\text{Fe}(\text{NO}_3)_2$
  - E)  $\text{Fe}(\text{NO}_2)_2$
17. Name the compound  $\text{Co}_2(\text{SO}_3)_3$ .
- A) cobalt sulfate
  - B) cobalt(II) sulfite
  - C) cobalt(II) sulfate
  - D) cobalt(III) sulfite
  - E) cobalt(III) sulfate

18. Name the compound  $\text{CrO}_3$ .
- A) chromium oxide
  - B) chromium(II) oxide
  - C) chromium(III) trioxide
  - D) chromium(III) oxide
  - E) chromium(VI) oxide
19. Name the compound  $\text{Cl}_2\text{O}_5$
- A) chlorine pentoxide
  - B) dichlorine pentoxygen
  - C) dichlorine pentoxide
  - D) chloride oxide
  - E) dichloride pentoxide
20. Name the compound  $\text{N}_2\text{O}_4$
- A) nitrous oxide
  - B) dinitrogen pentoxide
  - C) nitrogen oxide
  - D) dinitrogen tetroxide
  - E) nitrogen tetroxide
21. Name the compound  $\text{NO}_2$
- A) mononitrogen dioxygen
  - B) nitrogen dioxide
  - C) dinitrogen monoxide
  - D) nitrogen oxide
  - E) nitrite
22. Name the compounds  $\text{SO}_3$
- A) sulfur trioxide
  - B) sulfate
  - C) sulfite
  - D) sulfur trioxygen
  - E) sulfur oxide
23. Name the compounds  $\text{MgC}_2\text{O}_4$
- A) Magnesium carbonate
  - B) Manganese(II) carbonate
  - C) Magnesium oxalate
  - D) Magnesium(II) oxalate
  - E) None of the above

## Answer Key

1. B
2. E
3. B
4. D
5. D
6. A
7. E
8. E
9. D
10. D
11. B
12. A
13. D
14. A
15. B
16. D
17. D
18. E
19. C
20. D
21. B
22. A
23. C