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When you are done, grade yourself using the answer key on the next page.  
To be well prepared for Exam #1, you should be scoring  $\geq 85\%$  on your naming practice.

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**Converting from name to formula**

- 1) What is the formula for sulfurous acid?  
A)  $\text{H}_3\text{SO}_3(\text{aq})$     B)  $\text{H}_2\text{S}(\text{aq})$     C)  $\text{H}_2\text{SO}_3(\text{aq})$     D)  $\text{H}_3\text{SO}_4(\text{aq})$     E)  $\text{H}_2\text{SO}_4(\text{aq})$
- 2) What is the formula for rubidium arsenate?  
A)  $\text{Rb}_2\text{AsO}_4$     B)  $\text{Rb}_2\text{AsO}_3$     C)  $\text{Rb}_3\text{AsO}_3$     D)  $\text{Rb}_3\text{AsO}_4$     E)  $\text{RbAsO}_3$
- 3) What is the formula for aluminum sulfide?  
A)  $\text{Al}(\text{SO}_3)_2$     B)  $\text{Al}(\text{SO}_2)_2$     C)  $\text{Al}_3\text{S}_2$     D)  $\text{AlSO}_2$     E)  $\text{Al}_2\text{S}_3$
- 4) What is the formula for oxalic acid?  
A)  $\text{H}_2\text{C}_4\text{O}_2(\text{aq})$     B)  $\text{HC}_2\text{H}_2\text{O}_3(\text{aq})$     C)  $\text{H}_2\text{C}_2\text{O}_4(\text{aq})$     D)  $\text{HC}_2\text{H}_3\text{O}_2(\text{aq})$     E)  $\text{HC}_2\text{O}_4(\text{aq})$
- 5) What is the formula for zinc borate?  
A)  $\text{ZnBO}_4$     B)  $\text{Zn}_3(\text{BO}_3)_2$     C)  $\text{Zn}(\text{BO}_4)_2$     D)  $\text{Zn}_3\text{BO}_3$     E)  $\text{Zn}_2\text{BO}_3$
- 6) What is the formula for tin(II) chromate?  
A)  $\text{SnCrO}_4$     B)  $\text{Sn}_2\text{Cr}_2\text{O}_7$     C)  $\text{SnCr}_2\text{O}_4$     D)  $\text{Sn}_2\text{CrO}_4$     E)  $\text{SnCr}_2\text{O}_7$
- 7) What is the formula for hydrobromic acid?  
A)  $\text{H}_2\text{BrO}_3(\text{aq})$     B)  $\text{HBrO}(\text{aq})$     C)  $\text{HBrO}_2(\text{aq})$     D)  $\text{HBrO}_3(\text{aq})$     E)  $\text{HBr}(\text{aq})$
- 8) What is the formula for tetraphosphorous pentachloride?  
A)  $\text{P}_3\text{Cl}_6$     B)  $\text{P}_3(\text{ClO})_6$     C)  $\text{P}_4\text{Cl}_5$     D)  $\text{P}_6(\text{ClO})_3$     E)  $\text{P}_3(\text{ClO})_5$
- 9) What is the formula for barium dihydrogen phosphate?  
A)  $\text{BaH}_2\text{PO}_4$     B)  $\text{Ba}_2(\text{HPO}_4)_3$     C)  $\text{Ba}(\text{HPO}_3)_2$     D)  $\text{Ba}_3(\text{HPO}_3)_2$     E)  $\text{Ba}(\text{H}_2\text{PO}_4)_2$
- 10) What is the formula for potassium hydroxide?  
A)  $\text{KOH}$     B)  $\text{K}_3\text{O}_2$     C)  $\text{K}_3\text{OH}$     D)  $\text{K}_2\text{OH}$     E)  $\text{K}_2\text{O}_2$

**Converting from formula to name**

- 11) What is the name for  $\text{LiHCO}_3$ ?  
A) lithium carbonate    B) lithium hydrogen carbonate  
C) lithium hydrocarbide    D) lithium monohydrogen monocarbide  
E) lithium hydrocarbonic acid
- 12) What is the name for  $\text{HIO}(\text{aq})$ ?  
A) hydroiodic acid    B) periodic acid    C) hypoiodous acid  
D) iodous acid    E) iodic acid
- 13) What is the name for  $\text{I}_2\text{O}_5$ ?  
A) diiodine peroxide    B) biiodine tetroxide    C) diiodide tetroxide  
D) biiodide pentoxide    E) diiodine pentoxide
- 14) What is the name for  $\text{Cu}_3\text{N}_2$ ?  
A) copper(III) nitride    B) copper nitrate    C) copper(II) nitride  
D) copper(III) dinitride    E) tricopper dinitride

15) What is the name for  $\text{NiPO}_3$ ?

- A)** nickel(I) phosphide      **B)** nickel phosphate      **C)** nickel(I) phosphite  
**D)** nickel(II) phosphate      **E)** nickel(III) phosphite

16) What is the name for  $\text{Pb}(\text{MnO}_4)_2$ ?

- A)** lead dimanganate      **B)** lead(IV) permanganate  
**C)** lead(II) permanganate      **D)** lead(II) manganate  
**E)** lead(IV) hypomanganate

17) What is the name for  $\text{Ag}_2\text{S}_2\text{O}_3$ ?

- A)** silver(II) sulfide      **B)** silver thiosulfate      **C)** silver(II) thiosulfate  
**D)** disilver disulfate      **E)** silver(III) sulfate

18) What is the name for  $\text{NO}_3$ ?

- A)** nitrogen(VI) oxide      **B)** nitrogen oxide      **C)** nitrogen trioxide  
**D)** mononitrogen trioxide      **E)** nitrate ion

19) What is the name for  $\text{NH}_4\text{F}$ ?

- A)** ammonium fluoride      **B)** ammonia(I) fluoride  
**C)** nitrogen tetrahydrogen fluoride      **D)** nitrogen fluoric acid  
**E)** ammonia fluoride

20) What is the name for  $\text{HNO}_2(\text{aq})$ ?

- A)** nitric acid      **B)** hydronitric acid      **C)** hydrogen nitrous acid  
**D)** hydronitrous acid      **E)** nitrous acid

**Answers (5 pt each; 100 pt total)**

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