

HOME WORK 6  
CHAPTER 6

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) The compound  $\text{TiO}_2$  is classified as which of the following? 1) \_\_\_\_\_  
A) binary ionic  
B) ternary ionic  
C) binary acid  
D) ternary oxyacid  
E) binary molecular
- 2) What is the systematic name for  $\text{N}^{3-}$ ? 2) \_\_\_\_\_  
A) nitrogen ion  
B) nitrate ion  
C) nitrite ion  
D) nitride ion  
E) none of the above
- 3) What is the chemical formula for the sulfite ion? 3) \_\_\_\_\_  
A)  $\text{SO}_4^-$   
B)  $\text{SO}_4^{2-}$   
C)  $\text{SO}_3^{2-}$   
D)  $\text{SO}_3^-$   
E) none of the above
- 4) What is the chemical formula for the binary compound composed of  $\text{Li}^+$  and  $\text{O}^{2-}$  ions? 4) \_\_\_\_\_  
A)  $\text{LiO}_2$   
B)  $\text{LiO}$   
C)  $\text{Li}_2\text{O}$   
D)  $\text{Li}_2\text{O}_2$   
E) none of the above
- 5) What is the chemical formula for the binary compound composed of  $\text{Au}^{3+}$  and  $\text{I}^-$  ions? 5) \_\_\_\_\_  
A)  $\text{Au}_3\text{I}_3$   
B)  $\text{Au}_3\text{I}$   
C)  $\text{AuI}$   
D)  $\text{AuI}_3$   
E) none of the above
- 6) What is the chemical formula for the ternary compound composed of  $\text{Co}^{3+}$  and  $\text{SO}_4^{2-}$  ions? 6) \_\_\_\_\_  
A)  $\text{Co}_2\text{SO}_4$   
B)  $\text{Co}_3(\text{SO}_4)_2$   
C)  $\text{CoSO}_4$   
D)  $\text{Co}_2(\text{SO}_4)_3$   
E) none of the above

- 7) What is the ionic charge for the copper ion in  $\text{Cu}_2\text{S}$ ? 7) \_\_\_\_\_  
A) 1+  
B) 2+  
C) zero  
D) 3+  
E) none of the above
- 8) What is the chemical formula for mercury(I) nitride? 8) \_\_\_\_\_  
A)  $\text{Hg}_2\text{N}_3$   
B)  $(\text{Hg}_2)_3\text{N}_2$   
C)  $\text{Hg}_3\text{N}_2$   
D)  $(\text{Hg}_2)_2\text{N}_3$   
E) none of the above
- 9) What is the Latin system name for  $\text{FeO}$ ? 9) \_\_\_\_\_  
A) iron(II) oxide  
B) iron(III) oxide  
C) ferrous oxide  
D) ferric oxide  
E) none of the above
- 10) Predict the chemical formula for lithium phosphide, given the formula of potassium nitride,  $\text{K}_3\text{N}$ . 10) \_\_\_\_\_  
A)  $\text{LiP}_3$   
B)  $\text{Li}_3\text{P}$   
C)  $\text{LiP}$   
D)  $\text{Li}_2\text{P}_3$   
E) none of the above
- 11) What is the chemical formula for iron(III) sulfate? 11) \_\_\_\_\_  
A)  $\text{FeSO}_4$   
B)  $\text{FeSO}_3$   
C)  $\text{Fe}_2(\text{SO}_3)_3$   
D)  $\text{Fe}_2(\text{SO}_4)_3$   
E) none of the above
- 12) What is the systematic name for  $\text{NH}_4\text{Cl}$ ? 12) \_\_\_\_\_  
A) ammonium tetrachloride  
B) tetraammonium chloride  
C) ammonium chloride  
D) nitrogen tetrahydrogen chloride  
E) none of the above
- 13) What is the systematic name for  $\text{Br}_3\text{O}_8$ ? 13) \_\_\_\_\_  
A) tribromine octaoxide  
B) tribromine heptaoxide  
C) bromine octaoxide  
D) bromine heptaoxide  
E) none of the above

14) What is the chemical formula for sulfuric acid?

14) \_\_\_\_\_

- A)  $\text{H}_2\text{SO}_3(aq)$
- B)  $\text{HSO}_3(aq)$
- C)  $\text{H}_2\text{SO}_4(aq)$
- D)  $\text{HSO}_4(aq)$
- E) none of the above

15) Which of the following acids is named: nonmetal stem + ic acid?

15) \_\_\_\_\_

- A)  $\text{H}_2\text{SO}_4(aq)$
- B)  $\text{HNO}_3(aq)$
- C)  $\text{H}_3\text{PO}_4(aq)$
- D) all of the above
- E) none of the above