

–Mount Pearl Senior High School
Chemistry Pretest #2Science 1206
2012.01**Place the answer on the Scantron[®] sheet, by shading in the appropriate rectangle.**

1. What is the name for $\text{Na}_3\text{PO}_4 \cdot 7\text{H}_2\text{O}$?
 - a) trisodium phosphate hydrate
 - b) sodium phosphite heptahydrate
 - c) sodium phosphate heptahydrate*
 - d) sodium phosphate septahydrate
2. Which is the correct name for $\text{H}_3\text{PO}_3(\text{aq})$?
 - a) phosphorus acid
 - b) hydrogen phosphite
 - c) phosphoric acid
 - d) phosphorous acid*
3. Which is the correct formula for chromium(II) acetate octahydrate?
 - a) $\text{Cr}_2\text{CH}_3\text{COO} \cdot 8\text{H}_2\text{O}$
 - b) $\text{CrCH}_3\text{COO} \cdot 8\text{H}_2\text{O}$
 - c) $\text{Cr}(\text{CH}_3\text{COO})_2 \cdot 8\text{H}_2\text{O}$ *
 - d) $\text{Cr}(\text{CH}_3\text{COO})_2 \cdot 9\text{H}_2\text{O}$
4. When used in the formula of a compound, which is always found first?
 - a) hydrogen
 - b) cation*
 - c) anion
 - d) polyatomic ion
5. Which is the correct name for the compound, SCl_2 ?
 - a) sulfur chloride
 - b) sulfur dichlorine
 - c) dichloro sulfide
 - d) sulfur dichloride*
6. What is the correct formula for ethanol?
 - a) CH_4
 - b) CH_3CH_3
 - c) $\text{C}_2\text{H}_5\text{OH}$ *
 - d) CH_3OH
7. What is the correct formula for dinitrogen pentoxide?
 - a) N_2O_5 *
 - b) N_2O_4
 - c) NiO_5
 - d) NO_5
8. What is the correct formula for hydrosulfuric acid
 - a) $\text{H}_2\text{S}_2\text{O}_3(\text{aq})$
 - b) $\text{H}_2\text{SiO}_3(\text{aq})$
 - c) $\text{H}_2\text{SO}_4(\text{aq})$
 - d) $\text{H}_2\text{S}(\text{aq})$ *

9. What is the correct formula for hypochlorous acid?

- a) $\text{HCl}(\text{aq})$
- b) $\text{HClO}(\text{aq})^*$
- c) $\text{HClO}_2(\text{aq})$
- d) $\text{HClO}_4(\text{aq})$

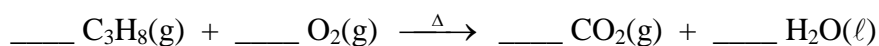
10. Which of the following forms a conducting solution?

- a) CaCl_2^*
- b) CH_4
- c) $\text{C}_6\text{H}_{12}\text{O}_6$
- d) O_2

11. A colorless solution is found to change red litmus to blue. This solution would be classified as a(an

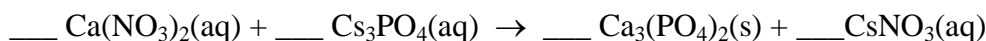
- a) Acid
- b) base *
- c) molecular substance
- d) ionic substance

12. Which is the correct sequence of numbers for the balancing of the equation?



- a) 1, 3, 3, 4
- b) 2, 10, 6, 8
- c) 1, 5, 3, 4 *
- d) 1, 2, 3, 8

13. Which sequence of number is correct for the balancing of the equation



- a) 3;2;1;6 *
- b) 2;1;3;6
- c) 6;4;2;12
- d) 3;1;1;3

14. What type of reaction type is represented by the reaction in #13 above

- a) Single replacement
- b) Double replacement *
- c) Hydrocarbon combustion
- d) decomposition

15. Which is the formula for an acid?

- a) $\text{CH}_3\text{OH}(\text{aq})$
- b) $\text{HCN}(\text{aq})^*$
- c) $\text{NaHCO}_3(\text{aq})$
- d) NH_4OH

16. When the following reaction is balanced, what is the coefficient of the Cl_2 ?



- a) 1
- b) 2
- c) 3 *
- d) 4

17. Which reaction type is represented by the reaction in #16?

- a) Composition
- b) Decomposition *
- c) Single replacement
- d) Hydrocarbon combustion