

General Chemistry 1—First Year Course
Problem Set 10 (the last one!)
Due Monday, December 19, 2005

1. (4 points) Silberberg 18.24
2. (6 points) Silberberg 18.42. You should use the smallest set of whole number coefficients to balance each reaction.
3. (3 points) Silberberg 18.46
4. (5 points) Silberberg 18.64
5. (7 points) Which is the stronger acid, HOBr or HOBrO? Justify your answer. Your justification must include drawing Lewis structures of all reactants and products.
6. (4 points) Silberberg 18.87. You should use the smallest set of whole number coefficients to balance each reaction.
7. (8 points) Silberberg 18.93
8. (16 points) Silberberg 18.99
9. (6 points) Explain (with chemical equations, if appropriate) whether an aqueous solution of each of the following salts is acidic, basic, or neutral: (a) $\text{C}_2\text{H}_5\text{NH}_3\text{Cl}$; (b) K_2S ; (c) CsI .
10. (2 points) Silberberg 19.67 (a) and (b)
11. (10 points) Silberberg 19.74