

Blitz, Units 24-25, Form I-L

Name _____ Period _____

This is a Take Home Exam. You may use your Notes, PowerPoint, or Text on this exam but NO help from human beings!

You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES

1. Explain Titration, the End Point, and give two examples of them in action.
2. What is the Hydronium Ion and show how it is formed.
3. Write formulas for three Acids and three Bases and name them all.
4. Discuss K_w and the pH scale.
5. Write ionic equations for
 - a. the precipitation of Ag_2CO_3
 - b. the dissolving of Li_2S .
6. DEFINE: Electrolyte, Base, Salt, Corrosive, and Alkaline.
7. Describe the Litmus Test and give two examples.

***** SHOW METHOD OF SOLUTION FOR ALL PROBLEMS !**

8. Calculate if a precipitate will form when $[\text{Cd}^{+2}] = 1 \times 10^{-8} \text{ M}$, and $[\text{S}^{-2}] = 1 \times 10^{-10} \text{ M}$.
 K_{sp} for $\text{CdS} = 1 \times 10^{-30}$.
9. Find the $[\text{OH}^{-1}]$ in M when 60ml of it just reacts with 90ml of 2 M HCl.
10. Find the pH when $[\text{OH}^{-1}] = 1 \times 10^{-9} \text{ M}$. $K_w = 1 \times 10^{-14}$.

When finished, please STAPLE this exam onto your papers and turn in on due date.