Blitz, Units 24-25, Form D-H

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:

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

1. Determine if a precipitate will form when $[Ba^{+2}]$ is 1 X 10^{-6} M and $[SO_4^{-2}]$ is 1 X 10^{-8} M. K_{sp} for $BaSO_4$ is 1 X 10^{-10}.

2. Find the [HBr] in M when 50ml of it are neutralized by 80ml of 2.0 M NaOH.

3. Find the pH when

   a) $[H^{+1}]$ = 1 X 10^{-3} M and when

   b) $[OH^{-1}]$ = 1 X 10^{-4} M. K_w = 1 X 10^{-14}.

4. List three Bases and three Acids and name them.

5. Explain K_w and the pH scale.

6. DEFINE: Corrosive, Caustic, Alkaline, Salt, and Titration.

7. Write ionic equations for

   a. the precipitation of PbI_2

   b. for the dissolving of $Hg_2SO_{4(s)}$

8. Describe the Litmus test and give two examples.

9. Give three definitions for acids.

10. Write the K expression for the reaction for the burning of methane, CH_4. (Burn it means add O_2 and get CO_2 and H_2O).

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