

## Blitz, Units 24-25, Form A-C

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. DEFINE: Electrolyte, three kinds of Acids, Salt, pH, and Caustic.
  2. Explain the Litmus Test and give two examples.
  3. Tell about  $K_w$ . Use the  $K_w$  equation to find the  $[H^+]$  when the  $[OH^-] = 1 \times 10^{-5}$  M.
  4. Write ionic equations for the
    - a. formation of  $MgSO_4(s)$
    - b. dissolving of  $Cr(OH)_3(s)$
  5. List three Acids and three Bases and name them.
  6. Explain Titration, the End Point, and describe two examples.
  7. Explain what is the Hydronium Ion and how it is formed.
- \*\*\* SHOW METHOD OF SOLUTION FOR ALL PROBLEMS !**
8. Find the solubility of CdS whose  $K_{sp}$  is  $4 \times 10^{-28}$ .
  9. Find the  $[HCl]$  in M when 25ml of 2 M NaOH are needed to titrate 100ml of HCl.
  10. Determine if a precipitate will form when  $[Ag^+]$  is  $1 \times 10^{-4}$  M, and  $[Cl^-]$  is  $1 \times 10^{-8}$  M.  $K_{sp}$  for AgCl is  $1 \times 10^{-10}$ .

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