

## Chem 1411 Study Guide for Exam 2

### I. Things that you need to know !!!!

1. Evidence of chemical reaction: precipitation, color change, gas evolution, neutralization, heat, etc.
2. Definition of electrolytes: strong, weak, and non-electrolytes.
3. Chemical equation: molecular equation, ionic equation, net ionic equation, spectator ions.
4. Precipitation reaction
5. Acid-base neutralization reaction: Definition of acids & bases and their strong and weak ones.
6. Oxidation-reduction reactions: definition of oxidation number and how to assign it on each atom.
7. Dilution:  $M_1V_1=M_2V_2$
7. Properties of light: wavelength, frequency, and speed of light.
8. Quantum numbers: i) principal quantum number (shell number); ii) angular momentum quantum number (subshell number); iii) magnetic quantum number; iv) spin quantum number
9. Shape of orbital
10. Electron configurations and their corresponding rules: Aufbau, Pauli, and Hund rules.
11. Electron diagram
12. The first law of Thermodynamics
13. State function
14. Heat(q) or Enthalpy ( $\Delta H$ ) calculation (Hess Law)
15. Percent yield, limiting agent (Chap 3)

### II. Sample questions

1. How many moles of  $\text{NO}_2$  are needed to form 5.24 moles of  $\text{NO}$  if there is plenty of water present?



- A) 15.72 moles  $\text{NO}_2$       B) 25.3 moles  $\text{NO}_2$       C) 8.44 moles  $\text{NO}_2$   
D) 5.63 moles  $\text{NO}_2$       E) 1.83 moles  $\text{NO}_2$

2. How many grams of  $\text{NO}$  are formed when 6.21 moles of  $\text{NO}_2$  are reacted?



- A) 19.9 g  $\text{NO}$       B) 27.9 g  $\text{NO}$       C) 62.1 g  $\text{NO}$       D) 3.59 g  $\text{NO}$       E) 11.7 g  $\text{NO}$

3. If 14.01 g sample of  $\text{N}_2$  reacts with 4.02 g of  $\text{H}_2$  to form ammonia ( $\text{NH}_3$ ), what is the mass of ammonia formed?

- A) 34.02 g      B) 11.10 g      C) 17.01 g      D) 30.02 g      E) 23.07 g

4. The chemical equation shows that carbonic acid is decomposed to form water and carbon dioxide by heating. What is the mass of carbon dioxide formed from 12.40 g of carbonic acid?



- A) 7.58 g      B) 8.80 g      C) 2.20 g      D) 6.20 g

# Chem 1411 Acs Study Guide

**M Mark**



## **Chem 1411 Acs Study Guide:**

Chemistry 1411 Enrique Olivas, 2014-08-19 THE MAIN OBJECTIVES DURING THE DEVELOPMENT OF THIS BOOK WAS TO BETTER PREPARE STUDENTS THAT NEED TO TAKE THE FINAL COMPREHENSIVE AMERICAN CHEMICAL SOCIETY ACS EXAM AS WELL AS THOSE STUDENTS THAT SEEK ADMISSION IN MEDICAL AND PHARMACY SCHOOLS THE STUDY GUIDE DESCRIBES IN AN OUTLINE FORMAT THE MOST IMPORTANT TOPICS COVERED IN GENERAL CHEMISTRY I THE BOOK SUMMARIZES THE MAIN OBJECTIVES THAT STUDENTS ENROLLED IN THE COURSE SHOULD LEARN THE BOOK GIVES MANY SAMPLE PROBLEMS WITH STEP WISE SOLUTIONS SO THAT STUDENTS CAN FOLLOW THE MATERIAL EASIER WHEN NECESSARY MATHEMATICAL FORMULAS ARE GIVEN ALL THROUGHOUT TO FACILITATE THE SOLUTIONS TO NUMERICAL PROBLEMS THIS STUDY GUIDE CAN BE USED BY ANY COLLEGE STUDENT ENROLLED IN GEN CHEM I REGARDLESS OF THE TEXT USED ONE OF THE PITFALLS OF MOST TEXTS IS THE EXCESSIVE AMOUNT OF MATERIAL COVERED BUT FAIL TO EMPHASIZE THE MOST IMPORTANT FEATURES OF THE TOPIC COVERED

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Guang Yang, Muhammad Wajid Ullah, Orlando Rojas, Ronan McCarthy, 2021-11-18 Drs Ullah and Yang hold patents related to cellulose material All other Topic Editors declare no competing interests with regard to the Research Topic subject This Research Topic is dedicated to Prof Lina Zhang on the occasion of her 80th Birthday in gratitude esteem and affection

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*The Official Guide to Catholic Educational Institutions and Religious Communities in the United States*, 1971

Celebrating the Work of Prof. Sourav Pal: Computational Approaches in Catalysis Soumyajit Roy, Sailaja

Krishnamurthy, Wolfgang Schöfberger, 2022-05-25 **Petroleum Abstracts**, 1993 **Acs Organic Chemistry Study Guide 2025-2026 - 2 Full-Length Practice Tests, Acs Secrets Exam Prep Book** Matthew Bowling, 2025-08-09 Mometrix Test Preparation's *ACS Organic Chemistry Study Guide ACS Secrets Exam Prep Book* is the ideal prep solution for anyone who wants to pass their *ACS Organic Chemistry Exam* The exam is extremely challenging and thorough test preparation is essential for success Our study guide includes 2 practice tests available in online interactive format All 2 of these printed in the guide Tips and strategies to help you get your best test performance A complete review of all organic chemistry test sections ACS is a registered trademark of the American Chemical Society which is not affiliated with Mometrix Test



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