

## Chemistry 111: Final Exam Topics

*The final exam is comprehensive – covering the whole quarter. An approximate breakdown is as follows:*

- Multiple Choice (160 points):
  - Roughly 2/3 based on older material (Topics from Exams 1-3)
  - Rest based on new material – Chapters 16, 17, 18
- Lab – related question (short answer= 40 points):
  - 1/5 (20 points) based on lab questions from Exams 1-3.
  - 1/5 (20 points) based on the Titration & Beer's Law labs.

### Chapter 17: Net Ionic Equations

- "Electrolyte," how these solutions conduct electricity.
- Write total ionic equation, then cancel the "spectator ions" to get a net ionic equation
- Solubility Rules & precipitation reactions

### Chapter 2

This is mostly science vocabulary!

- Scales in Science – Fig 2.1
- States (s/l/g)
- Review Goals – Page 36
- Review Vocabulary – Page 37

### Chapter 3

- Scientific Notation
- Scientific Notation & the EE/EXP button on your calculator.
- Given factors (the table I gave you or given in the problem), find a unit path & do a conversion.  
NOTE: you don't get the metric prefixes – memorize them.
- Metric Units for mass, volume, length
- Significant Figures
  - understand concept
  - Do the math (rules for + & -, × & ÷)
  - Know how to round
- Density = Mass ÷ Volume
- Convert °F ↔ °C ↔ K (equations might be given)

### Chapter 18: Acid – Base Reactions

- Definition – Arrhenius & Bronsted (Not Lewis)
- Recognize Acids & Bases (from formula)
- Water as an acid/base (amphoteric)
- Water,  $K_w$ , and calculating  $[H^+]$  &  $[OH^-]$
- Calculate pH, pOH & relationship between them.
- Weak Acids & Bases, Conjugate Acids & Bases.

### Chapter 10

- Electromagnetic spectrum (understand):  
Continuous spectrum vs. line spectrum
- "Quantized"
- Quantum Model – slides from Monday are good...
- Valence electrons,  $ns^2np^6$  notation
- Ionization Energy
- Vocabulary from end of chapter.

### Chapter 11

- Monatomic Ions
- Ionic Bonds
- Covalent Bonds
- Covalent Bond Polarity
- Multiple Bonds
- Octet Rule Exceptions.

# Chemistry 111 Final Exam Study Guide

**University of Michigan. Medical School**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the University of Michigan. Medical School text.

## Chemistry 111 Final Exam Study Guide:

**Examination Questions** University of Michigan. Medical School, 1948      *Resources in Education*, 1976      The Success Manual for General Chemistry Elizabeth Kean, Catherine Middlecamp, 1986      Proceedings Bassam Z. Shakhshiri, 1973      **Resources in Education**, 1982      El-Hi Textbooks and Serials in Print, 1986      **The Teaching Portfolio** Peter Seldin, J. Elizabeth Miller, Clement A. Seldin, 2010-08-30 Praise for The Teaching Portfolio This new edition of a classic text has added invaluable immediately useful material It s a must read for faculty department chairs and academic administrators Irene W D Hecht director Department Leadership Programs American Council on Education This book offers a wealth of wisdom and materials It contains essential knowledge salient advice and an immediately useful model for faculty engaged in promotion or tenure Raymond L Calabrese professor of educational administration The Ohio State University The Teaching Portfolio provides the guidelines and models that faculty need to prepare quality portfolios plus the standards and practices required to evaluate them Linda B Nilson director Office of Teaching Effectiveness and Innovation Clemson University Focused on reflection sound assessment and collaboration this inspiring and practical book should be read by every graduate student faculty member and administrator John Zubizarreta professor of English Columbia College All the expanded and new sections of this book add real value but administrators and review committees will clearly benefit from the new section on how to evaluate portfolios with a validated template Barbara Hornum director Center for Academic Excellence Drexel University This book is practical insightful and immediately useful It s an essential resource for faculty seeking promotion tenure or who want to improve their teaching Michele Stocker Barkley faculty Department of Psychology Kishwaukee Community College The Teaching Portfolio has much to say to teachers of all ranks disciplines and institutions It offers a rich compendium of practical guidelines examples and resources Mary Deane Sorcinelli Associate Provost for Faculty Development University of Massachusetts Amherst Teaching portfolios help our Board on Rank and Tenure really understand the quality and value of individual teaching contributions Martha L Wharton Assistant Vice President for Academic Affairs and Diversity Loyola University Maryland      **Cornell University Courses of Study** Cornell University, 2007      Index of the Periodical Dental Literature Published in the English Language, 1923 Beginning with 1962 references are not limited to material in the English language      *The Druggists' Circular and Chemical Gazette*, 1898 Includes Red book price list section title varies slightly issued semiannually 1897 1906      *American Druggist and Pharmaceutical Record*, 1895      **How to Study 5/e** Allan Mundsack, James Deese, Ellin Deese, 2002-12-11 The classic guide to effective studying revised for today s high tech students With computers at the forefront of today s university learning experience the new fifth edition of How to Study fills a long awaited need for an up to the minute guide to making the grade on campus A perennial bestseller since its first publication in 1954 How to Study covers the nuts and bolts of successful studying including the importance of setting priorities This strategic guide also introduces readers to the art of studying and the indispensability of being a self starter

and how to become one New to this fifth edition are the many benefits of computers and other 21st century technologies maintaining health in the college environment completely updated material on writing papers forming and running a study group a new section on getting letters of recommendation and so much more *The Glasgow Medical Journal* ,1889

**Practical Druggist and Pharmaceutical Review of Reviews** Benjamin Lillard,1910 Patrolman, Police Department Joseph A. Murray,1953 **The University correspondent and University correspondence college magazine (and The Educational review).** ,1891 **Educational Times** ,1889 **Investigator, Civil Service Loyalty Review** Arco Publishing Company,1948 **Medical Review of Reviews** ,1902 Index medicus in v 1 30 1895 1924 New Zealand Books in Print 2004 Thorpe-Bowker Staff,2004-06 Directory containing updated bibliographic information on all in print New Zealand books 33nd edition of an annual publication The 12 500 book entries are listed by title and there is an index to authors Also provided are details of 975 publishers and distributors and local agents of overseas publishers The book trade directory includes contacts for trade organisations booksellers public libraries and specialised suppliers NZ literary awards and past winners and sources of financial assistance for writers and publishers

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