

CHEMISTRY I - 1st SEMESTER EXAM REVIEW

STRATEGY: Start by reading through your notes to refresh your memory on these topics. Then, use this review sheet as a starting point to identify the areas on which you need to spend more study time. For those areas, go back to homework assignments, quizzes, and reviews to practice more problems. I would also recommend going through the website links of tutorials and practice quizzes.

FORMAT:

- + Questions will be multiple-choice.
- + A formula bank will be provided in addition to any values that you might need (electronegativity, etc.), but you will NOT be given "formulas" for items listed in the VOCAB sections (average atomic mass, % error, etc.).

Atomic Structure – Ch. 3

1. Identify the scientists who made the following discoveries.
 - a. Atoms contain negative particles called electrons.
 - b. The mass of an electron is 9.11×10^{-28} g.
 - c. Atoms contain neutral particles called neutrons.
 - d. Atoms contain a dense, positive nucleus.
 - e. Atoms are indivisible and resemble billiard balls.
2. Describe the evolution of the atomic model from the billiard ball model to the electron cloud model.
3. Write the isotope symbol, including atomic number & mass number, for the following isotopes.
 - a. carbon-14 c. nickel-63
 - b. chromium-53 d. zirconium-92

4. Complete the table for the following isotopes.

Symbol	Zn			
Atomic #		20		
Mass #	65		74	40
# of protons			34	
# of neutrons		21		
# of electrons				18

5. Calculate the average atomic mass of copper if 69.17% of the copper atoms occurring in nature are ^{63}Cu and 30.83% are ^{65}Cu .

VOCAB: isotope average atomic mass
mole

Matter – Ch. 1

6. Classify the following substances as *solid, liquid, gas, or plasma* based on their properties.
 - a. flexible volume, high KE, particles can disperse freely.
 - b. flexible volume, very high KE, particles are charged.
 - c. fixed volume, very low KE, orderly particles.
 - d. fixed volume, low KE, particles can move past each other.
7. Compare and contrast a solution, colloid, and suspension.
8. Classify the following as element, compound, heterogeneous mixture, or solution.
 - a. graphite (carbon)
 - b. grape juice
 - c. table salt (NaCl)
 - d. pepper
9. Classify the following as *chemical or physical changes*.
 - a. cutting wire
 - b. ripening tomato
 - c. apple slices turning brown
 - d. compressing a gas
10. Classify the following properties as *physical or chemical*.
 - a. melts at 68.0°C
 - b. corrosive
 - c. reacts violently with water
 - d. decomposes in air
 - e. magnetic

VOCAB: kinetic molecular theory
law of definite composition
law of multiple proportions

Measurement – Ch. 2

11. In a lab, the average measured density for Pre-1982 pennies was 7.98 g/cm^3 . Given that the literature value for the density is 8.92 g/cm^3 , calculate the percent error.
12. How many sig figs are in the following numbers?
 - a. 2.35 c. 89.70
 - b. 34,000 d. 0.0052
13. Convert the following numbers into or out of scientific notation.
 - a. 548,000 c. 1.200×10^{-3}
 - b. 0.0000770 d. 9.25×10^1
14. Osmium is the densest element with a density of 22.57 g/cm^3 . Find the mass of a 56.2 cm^3 sample of osmium.
15. Perform the following SI prefix conversions.
 - a. $65.2 \text{ mm} = ? \text{ dm}$ c. $65,000 \mu\text{L} = ? \text{ mL}$
 - b. $2.3 \text{ kg} = ? \text{ g}$ d. $0.502 \text{ km} = ? \text{ cm}$
16. How many milliliters are in a 2.0 quart jug of milk?
17. Mrs. J. spent last weekend grading lab reports. If she spent 5.5 min on each lab, how many hours did it take her to grade all 95 labs?
18. Calculate the density from the slope of a "Mass vs. Volume" graph.
19. Record the appropriate # of SigFigs when measuring.

VOCAB: accuracy vs. precision

Electrons in Atoms – Ch. 4 & 5

20. Calculate the wavelength if the frequency is $2.5 \times 10^8 \text{ Hz}$.
21. Find the energy of a photon if frequency is $7.31 \times 10^{14} \text{ Hz}$.
22. Describe how Bohr's model explains the bright lines (red, green, violet, violet) in the emission spectrum of hydrogen.
23. What is the primary difference between the modern model of the atom and Bohr's model?
24. Draw orbital diagrams for the following elements.

Symbol	Atomic #	Orbital Diagram
F		
V		

25. Explain why chromium's electron configuration is $[\text{Ar}] 4s^1 3d^5$ instead of the expected configuration of $[\text{Ar}] 4s^2 3d^4$.

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**National Academies of Sciences,
Engineering, and Medicine, Division on
Earth and Life Studies, Ocean Studies
Board, Committee on the Assessment
of the Cumulative Effects of
Anthropogenic Stressors on Marine
Mammals**

2014 Chemistry Spring Semester Exam Review:

Teach Students How to Learn Sandra Yancy McGuire, 2023-07-03 Co published with NISOD Miriam a freshman Calculus student at Louisiana State University made 37 5% on her first exam but 83% and 93% on the next two Matt a first year General Chemistry student at the University of Utah scored 65% and 55% on his first two exams and 95% on his third These are representative of thousands of students who decisively improved their grades by acting on the advice described in this book What is preventing your students from performing according to expectations Sandra McGuire offers a simple but profound answer If you teach students how to learn and give them simple straightforward strategies to use they can significantly increase their learning and performance For over a decade Sandra McGuire has been acclaimed for her presentations and workshops on metacognition and student learning because the tools and strategies she shares have enabled faculty to facilitate dramatic improvements in student learning and success This book encapsulates the model and ideas she has developed in the past fifteen years ideas that are being adopted by an increasing number of faculty with considerable effect The methods she proposes do not require restructuring courses or an inordinate amount of time to teach They can often be accomplished in a single session transforming students from memorizers and regurgitators to students who begin to think critically and take responsibility for their own learning Sandra McGuire takes the reader sequentially through the ideas and strategies that students need to understand and implement First she demonstrates how introducing students to metacognition and Bloom s Taxonomy reveals to them the importance of understanding how they learn and provides the lens through which they can view learning activities and measure their intellectual growth Next she presents a specific study system that can quickly empower students to maximize their learning Then she addresses the importance of dealing with emotion attitudes and motivation by suggesting ways to change students mindsets about ability and by providing a range of strategies to boost motivation and learning finally she offers guidance to faculty on partnering with campus learning centers She pays particular attention to academically unprepared students noting that the strategies she offers for this particular population are equally beneficial for all students While stressing that there are many ways to teach effectively and that readers can be flexible in picking and choosing among the strategies she presents Sandra McGuire offers the reader a step by step process for delivering the key messages of the book to students in as little as 50 minutes Free online supplements provide three slide sets and a sample video lecture This book is written primarily for faculty but will be equally useful for TAs tutors and learning center professionals For readers with no background in education or cognitive psychology the book avoids jargon and esoteric theory

New Processes for Nutrient Recovery from Wastes Matias B. Vanotti, Maria C. García-González, Beatriz Molinuevo-Salces, Berta Riaño, 2019-12-09 Global demand for mineral fertilizers is continuously increasing while large amounts of organic wastes are being disposed without use as a resource resulting in soil water and air pollution Current trends of intensification expansion and agglomeration of livestock production result in a net import of

nutrients that lead to a surplus in some production areas Therefore new processes and technologies to recover and re use nutrients from both solid and liquid wastes are desirable to close the loop on the nutrient cycle in modern human society and address future scarcity of non renewable nutrients and fossil based fertilizers This Research Topic aims to present scientific progress regarding processes and technologies that allow recovery and re use of nutrients from wastes the selective recovery of mineral nutrients ammonia and phosphates the production of new organic fertilizers and evaluation of their relative agronomic efficiency The articles within provide a stronger recognition of the importance of nutrient recovery and upcycling in the new horizons of the circular economy *Broadening Participation in STEM* Zayika Wilson-Kennedy, Goldie S.

Byrd, Eugene Kennedy, Henry T. Frierson, 2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines *Approaches to Understanding the Cumulative Effects of Stressors on Marine Mammals* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Ocean Studies Board, Committee on the Assessment of the Cumulative Effects of Anthropogenic Stressors on Marine Mammals, 2017-06-04 Marine mammals face a large array of stressors including loss of habitat chemical and noise pollution and bycatch in fishing which alone kills hundreds of thousands of marine mammals per year globally To discern the factors contributing to population trends scientists must consider the full complement of threats faced by marine mammals Once populations or ecosystems are found to be at risk of adverse impacts it is critical to decide which combination of stressors to reduce to bring the population or ecosystem into a more favorable state Assessing all stressors facing a marine mammal population also provides the environmental context for evaluating whether an additional activity could threaten it *Approaches to Understanding the Cumulative Effects of Stressors on Marine Mammals* builds upon previous reports to assess current methodologies used for evaluating cumulative effects and identify new approaches that could improve these assessments This review focuses on ways to quantify exposure related changes in the behavior health or body condition of individual marine mammals and makes recommendations for future research initiatives **Comprehensive Medicinal Chemistry III**, 2017-06-03 *Comprehensive Medicinal Chemistry III* Eight Volume Set provides a contemporary and forward looking critical analysis and summary of recent developments emerging trends and recently identified new areas where medicinal chemistry is having an impact The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges These include drug targeting biomolecular therapeutics development of chemical biology tools data collection and analysis in silico models as predictors for biological properties identification and validation of new targets approaches to quantify target engagement new methods for synthesis of drug candidates such as green chemistry development of novel scaffolds for drug discovery and the role of regulatory agencies in drug discovery Reviews the strategies technologies principles and applications of modern medicinal chemistry Provides a global and current perspective of today s drug discovery process and discusses the major

therapeutic classes and targets Includes a unique collection of case studies and personal essays reviewing the discovery and development of key drugs **Bibliography of Chemical Reviews** ,1961 **Quality Control and Evaluation of Herbal**

Drugs Pulok K. Mukherjee,2019-05-30 Quality Control and Evaluation of Herbal Drugs brings together current thinking and practices for evaluation of natural products and traditional medicines The use of herbal medicine in therapeutics is on the rise in both developed and developing countries and this book facilitates the necessary development of quality standards for these medicines This book elucidates on various challenges and opportunities for quality evaluation of herbal drugs with several integrated approaches including metabolomics chemoprofiling marker analysis stability testing good practices for manufacturing clinical aspects Ethnopharmacology and Ethnomedicine inspired drug development Written by Prof Pulok K Mukherjee a leader in this field the book highlights on various methods techniques and approaches for evaluating the purity quality safety and efficacy of herbal drugs Particular attention is paid to methods that assess these drugs activity the compounds responsible and their underlying mechanisms of action The book describes the quality control parameters followed in India and other countries including Japan China Bangladesh and other Asian countries as well as the regulatory profiles of the European Union and North America This book will be useful in bio prospecting of natural products and traditional medicine inspired drug discovery and development Provides new information on the research and development of natural remedies essential reading on the study and use of natural resources for preventative or healing purposes Brings together current thinking and practices in quality control and standardization of herbal drugs highlighting several integrated approaches for metabolomics chemo profiling and marker analysis Aids in developing knowledge of various techniques including macroscopy microscopy HPTLC HPLC LC MS MS GC MS etc with the development of integrated methods for evaluation of botanicals used in traditional medicine Assessment of herbal drugs through bio analytical techniques bioassay guided isolation enzyme inhibition pharmacological microbiological antiviral assays and safety related quality issues References global organizations such as the WHO USFDA CDSCO AYUSH TCM and others to serve as a comprehensive document for enforcement agencies NGOs and regulatory authorities **2005 College Handbook: More Than 3,600**

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Government Reports Announcements & Index ,1995 **The Rural Educator** ,2013 **Energy Research Abstracts** ,1983 Goldfrank's Toxicologic Emergencies, Eleventh Edition Lewis S. Nelson,Robert S. Hoffman,Mary Ann Howland,Neal A. Lewin,Lewis R. Goldfrank,2018-08-22 Goldfrank s is the premier toxicology textbook that should be in every emergency department or poison center library Whether you are a student resident or faculty there is something here for you If you are a toxicology fellow or poison specialist studying for your boards this is your go to book I highly recommend this work The Journal of Emergency Medicine The best edition yet of the landmark text in medical toxicology A Doody s Core Title for 2021 Covering every aspect of poison management this indispensable case based resource has been thoroughly refreshed to deliver evidence based principles viewed through the lens of an active bedside clinical practice In no other reference will you find such a diverse roster of esteemed editors and authors who deliver expert insights into every type of toxicologic emergency whether due to substance abuse or exposure to toxins Fully referenced and supported by a cohesive organization and full color format Goldfrank s begins with a historical perspective on medical toxicology principles and the general approach to the patient It then progresses to the fundamental principles of medical

toxicology encompassing biochemical and molecular concepts the effect of xenobiotics on vital organs and body systems and toxicologic principles in special populations The Eleventh Edition of Goldfrank's Toxicologic Emergencies is the most rigorous volume to date driven by a precise analysis of the latest medical literature and complex cases designed to facilitate differential diagnosis New to this Edition Additional cases and Special Considerations chapters designed to enhance clinical decision making and patient outcomes New Antidotes in Depth provides timely critical information on toxicologic treatment strategies New content on toxicogenomics explores its increasingly important role in predictive toxicology Chapter ending bulleted summaries of key points Updated coverage of synthetics such as K2 Revised chapters on medical clinical and chemical toxicology include updated insights on poison emergencies treatment strategies and risk assessment tools

Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 **Chemistry Review Volume 24 2014/15** Philip Allan Magazines, 2015-04-01

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Table of Contents 2014 Chemistry Spring Semester Exam Review

1. Understanding the eBook 2014 Chemistry Spring Semester Exam Review
 - The Rise of Digital Reading 2014 Chemistry Spring Semester Exam Review
 - Advantages of eBooks Over Traditional Books
2. Identifying 2014 Chemistry Spring Semester Exam Review
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2014 Chemistry Spring Semester Exam Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2014 Chemistry Spring Semester Exam Review
 - Personalized Recommendations
 - 2014 Chemistry Spring Semester Exam Review User Reviews and Ratings
 - 2014 Chemistry Spring Semester Exam Review and Bestseller Lists

5. Accessing 2014 Chemistry Spring Semester Exam Review Free and Paid eBooks
 - 2014 Chemistry Spring Semester Exam Review Public Domain eBooks
 - 2014 Chemistry Spring Semester Exam Review eBook Subscription Services
 - 2014 Chemistry Spring Semester Exam Review Budget-Friendly Options
6. Navigating 2014 Chemistry Spring Semester Exam Review eBook Formats
 - ePub, PDF, MOBI, and More
 - 2014 Chemistry Spring Semester Exam Review Compatibility with Devices
 - 2014 Chemistry Spring Semester Exam Review Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2014 Chemistry Spring Semester Exam Review
 - Highlighting and Note-Taking 2014 Chemistry Spring Semester Exam Review
 - Interactive Elements 2014 Chemistry Spring Semester Exam Review
8. Staying Engaged with 2014 Chemistry Spring Semester Exam Review
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2014 Chemistry Spring Semester Exam Review
9. Balancing eBooks and Physical Books 2014 Chemistry Spring Semester Exam Review
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2014 Chemistry Spring Semester Exam Review
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2014 Chemistry Spring Semester Exam Review
 - Setting Reading Goals 2014 Chemistry Spring Semester Exam Review
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2014 Chemistry Spring Semester Exam Review
 - Fact-Checking eBook Content of 2014 Chemistry Spring Semester Exam Review
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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