

## Practice Final Exam Chem 112

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. Three hundred milliliters (150 mL) of 4.50 M sugar solution is diluted to 600 mL by the addition of pure water. Which of these statements about the solution is correct?  
 a. The moles of water remain the same.    b. The moles of sugar decrease.    c. The concentration of sugar increases to 5.0 M.    d. The moles of sugar remain constant.    e. All of these statements are incorrect.
- \_\_\_\_\_ 2. How many moles of solute are present in 75.0 grams of solution that is 1.30% by mass glucose ( $C_6H_{12}O_6$ )?  $MM(C_6H_{12}O_6) = 180.16 \text{ g/mol}$   
 a.  $5.4 \times 10^{-3}$  moles    b. 0.800 moles    c. 176 moles    d.  $1.76 \times 10^{-3}$  moles    e. 225 moles
- \_\_\_\_\_ 3. A concentrated reagent is sold as a solution that is 60.0 mass % solute. If the molar mass of the solute is 244 g/mol and the density of this solution is 1.20 g/mL, what is the molarity of the solution?  
 a. 10.0 M    b. 2.95 M    c. 15.5 M    d. 0.72 M    e. 1.45 M
- \_\_\_\_\_ 4. The boiling point of pure benzene ( $C_6H_6$ ) is 80.10 °C. A solution of 14.2 g of a solid dissolved in 64.0 g of benzene boils at 81.09 °C. If  $k_b$  for benzene is 2.53 °C/molal, the molar mass of the solid is:  
 a. 662 g/mol    b. 56.0 g/mol    c. 92.0 g/mol    d. 628 g/mol    e. 568 g/mol
- \_\_\_\_\_ 5. What is the freezing point for a 0.71 m solution of glycerol ( $C_3H_8O_3$ ) in ethanol? Freezing point(ethanol) = -114.6 °C;  $K_f(\text{ethanol}) = 1.99 \text{ °C/m}$   
 a. 0.10 °C    b. -113.2 °C    c. -1.41 °C    d. -116.0 °C    e. none of these
- \_\_\_\_\_ 6. At 450 °C,  $K_c = 0.231$  for the reaction:



What is the value of the equilibrium constant for the following reaction at 450 °C?



- a. 0.481    b. 0.156    c. 0.231    d. 0.053    e. 4.329

- \_\_\_\_\_ 7. Consider the following system at equilibrium and its corresponding concentration equilibrium constant:



What is the value of  $K_p$  for this reaction at 470 °C?

- a.  $K_p = 3.80 \times 10^{-6}$     b.  $K_p = 8.53 \times 10^{-6}$     c.  $K_p = 4.32 \times 10^{-5}$     d.  $K_p = 1.10 \times 10^{-4}$     e.  $K_p = 1.19 \times 10^4$

- \_\_\_\_\_ 8. For the reaction  $\text{I}_2 (\text{g}) + \text{Cl}_2 (\text{g}) \rightleftharpoons 2 \text{ICl} (\text{g})$ , the relation between  $K_p$  and  $K_c$  is:  
 a.  $K_p = K_c$     b.  $K_p = K_c(RT)^2$     c.  $K_p = K_c(RT)^{-2}$     d.  $K_c = K_p(RT)^2$     e.  $K_p = K_c(RT)^4$

# Spring 2013 Chemistry Final Exam Answers

**H. Niki, K.H. Becker**



## Spring 2013 Chemistry Final Exam Answers:

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**The Tropospheric Chemistry of Ozone in the Polar Regions** H. Niki, K.H. Becker, 2013-06-29 The Arctic troposphere (0 to ca 8 km) plays an important role in environmental concerns for global change. It is a unique chemical reactor influenced by human activity and the Arctic ocean. It is surrounded by industrialized continents that in winter contribute gaseous and particulate pollution. Arctic haze is underlain by the flat Arctic ocean from which it is separated by a crack-ridden ice membrane 3 to 4 m thick. Ocean-to-atmosphere exchange of heat, water vapor, and marine biogenic gases influence the composition of the reactor. From September 21 to December 21 to March 21, the region north of the Arctic circle goes from a completely sunlit situation to a completely dark one and then back to light. At the same time, the lower troposphere is stably stratified. This hinders vertical mixing. During this light period, surface temperature reaches as low as 40 °C. In this environment, chemical reactions involving sunlight are generally much slower than further south. Thus, the abundance of photochemically reactive compounds in the atmosphere can be high prior to polar sunrise. Between complete dark in February and complete light in April, a number of chemical changes in the lower

troposphere take place      **Advances in Clinical Chemistry** ,2025-04-05 Advances in Clinical Chemistry Volume 126 the latest installment in this internationally acclaimed series contains chapters authored by world renowned clinical laboratory scientists physicians and research scientists Chapters in this new release include Internalization of Extracellular Tau Oligomers in Alzheimer s Disease Advances in Neurofilament Light Chain Analysis Biomarkers of Endometriosis Lupus Nephritis II Treatment and Monitoring and Emerging Biomarkers in Type 2 Diabetes Mellitus Coagulopathy Prediction in Traumatic Brain Injury Provides the most up to date technologies in clinical chemistry and clinical laboratory science Authored by world renowned clinical laboratory scientists physicians and research scientists Presents the international benchmark for novel analytical approaches in the clinical laboratory      **Chemistry Education and Sustainability in the**

**Global Age** Mei-Hung Chiu,Hsiao-Lin Tuan,Hsin-Kai Wu,Jing-Wen Lin,Chin-Cheng Chou,2012-12-05 This edited volume of papers from the twenty first International Conference on Chemical Education attests to our rapidly changing understanding of the chemistry itself as well as to the potentially enormous material changes in how it might be taught in the future Covering the full range of appropriate topics the book features work exploring themes as various as e learning and innovations in instruction and micro scale lab chemistry In sum the 29 articles published in these pages focus the reader s attention on ways to raise the quality of chemistry teaching and learning promoting the public understanding of chemistry deploying innovative technology in pedagogy practice and research and the value of chemistry as a tool for highlighting sustainability issues in the global community Thus the ambitious dual aim achieved in these pages is on the one hand to foster improvements in the teaching and communication of chemistry whether to students or the public and secondly to promote advances in our broader understanding of the subject that will have positive knock on effects on the world s citizens and environment In doing so the book addresses as did the conference the neglect suffered in the chemistry classroom by issues connected to globalization even as it outlines ways to bring the subject alive in the classroom through the use of innovative technologies      **Beer in Maryland** Maureen O'Prey,2018-03-05 This history begins with the earliest brewers in the colony women revealing details of the Old Line State s brewing families and their methods Stories never before told trace the effects of war competition the Industrial Revolution Prohibition and changing political philosophies on the brewing industry Some brewers persevered through crime scandal and intrigue to play key roles in building their communities Today s craft brewers face a number of very different challenges from monopolistic macro breweries and trademark quandaries to hop shortages while attempting to establish their own legacies      **The Multiplayer Classroom** Lee Sheldon,2020-03-09 Go beyond gamification s badges and leaderboards with the new edition of the book first published in 2011 that helped transform education Going far beyond the first edition of The Multiplayer Classroom forthrightly examining what worked and what didn t over years of development here are the tools to design any structured learning experience as a game to engage your students raise their grades and ensure their attendance Suitable for use in the classroom or the boardroom this book

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,2013-02-13 This is the last of five books in the Amino Acids Peptides and Proteins in Organic Synthesis series Closing a gap in the literature this is the only series to cover this important topic in organic and biochemistry Drawing upon the combined expertise of the international who s who in amino acid research these volumes represent a real benchmark for amino acid chemistry providing a comprehensive discussion of the occurrence uses and applications of amino acids and by extension their polymeric forms peptides and proteins The practical value of each volume is heightened by the inclusion of experimental procedures The 5 volumes cover the following topics Volume 1 Origins and Synthesis of Amino Acids Volume 2 Modified Amino Acids Organocatalysis and Enzymes Volume 3 Building Blocks Catalysis and Coupling Chemistry Volume 4 Protection Reactions Medicinal Chemistry Combinatorial Synthesis Volume 5 Analysis and Function of Amino Acids and Peptides Volume 5 of this series presents a wealth of methods to analyze amino acids and peptides Classical approaches are described such as X ray analysis chromatographic methods NMR AFM mass spectrometry and 2D gel electrophoresis as well as newer approaches including Surface Plasmon Resonance and array technologies Originally planned as a six volume series Amino Acids Peptides and Proteins in Organic Chemistry now completes with five volumes but remains comprehensive in both scope and coverage <http://eu.wiley.com/WileyCDA/WileyTitle/productCd/3527335463.html>

Further information about the 5 Volume Set and purchasing details can be viewed here a [TRAC: Trends in Analytical Chemistry](#) U A Th Brinkman, J. G. Dorsey, J R Durig, 2013-09-24 TRAC Trends in Analytical Chemistry Volume 7 provides information pertinent to the trends in the field of analytical chemistry This book discusses a variety of topics related to analytical chemistry including biomolecular mass spectroscopy affinity chromatography electrochemical detection nucleosides and protein sequencing Organized into 63 parts encompassing 158 chapters this volume begins with an overview of the significance of quality and productivity in the analytical laboratory This text then presents a comprehensive review on alcohol dehydrogenases immobilization and applications in analysis and synthesis Other chapters consider the various tests for determining the excellence of quantitative assays available for analysts to utilize for method validation This book discusses as well the primary challenge of neuropharmacologists to relate physiological functions to the many ligand binding sites identified in brain tissue The final chapter deals with the fundamentals and applications of biosensors This book is a

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and fees Additional information includes an overview of the Veterinary Medical College Application Service VMCAS and information about the accreditation of veterinary schools and professional licensure as a veterinarian The book provides the best concise current and comparative information for those students interested in preparing for a career in veterinary medicine as well as their advisors and counselors **Getting into Medical School For Dummies** Carleen

Eaton,2013-05-03 Your plain English guide to getting into the medical school of your dreams Getting accepted to medical school is a long and rigorous process and many students find they need help If you re one of these students Getting into Medical School For Dummies is the perfect tool to help you through the process and realize your dream By providing you with concise information about preparing for and applying to medical school Getting into Medical School For Dummies prepares you for the application process Written by an industry expert it gives you a distinct advantage in the competitive medical school admissions process preparing you for every step and helping you create your best application Takes you through the often overwhelming process of applying to medical school Explains what medical schools and admissions committees are really looking for Provides plain English explanations of complicated medical school admissions processes If you re one of the over 40 000 students who apply to medical school each year and need help sorting through the admissions schedule writing statements of intent and preparing to take the MCAT Getting Into Medical School For Dummies has you covered **Pathophysiology - E-Book** Jacquelyn L. Banasik,2021-05-29 NEW Next Generation NCLEX NGN style case studies on the companion Evolve website help strengthen your clinical judgment skills in preparation for the new item types on the exam NEW COVID 19 coverage includes the most current scientific findings prevalence mechanism of disease transmission and treatment implications



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