CHEMISTRY

Section II

(Total time—95 minutes)

Pacet A.

Time — 55 minutes

YOU MAY USE YOUR CALCULATOR FOR PART A.

CLEARLY SHOW THE METHOD USED AND THE STEPS INVOLVED IN ARRIVING AT YOUR ANSWERS. It is to your advantage to do this, since you may obtain partial credit if you do and you will receive little or no credit if you do not. Attention should be paid to significant figures.

Be sure to write all your answers to the questions on the lined pages following each question in the booklet with the pink cover. Do NOT write your answers on the green insert.

Answer Questions 1, 2, and 3. The Section II score weighting for each question is 20 percent.

- Answer the following questions that relate to the chemistry of halogen oxoacids.
 - (a) Use the information in the table below to answer part (a)(i).

Acid	K. at 298 K
HOCI	2.9×10^{-8}
HOBr	2.4×10^{-9}

- Which of the two acids is stronger, HOCI or HOBr? Justify your answer in terms of K_n.
- (ii) Draw a complete Lewis electron-dot diagram for the acid that you identified in part (a)(i).
- (iii) Hypoiodous acid has the formula HOL Predict whether HOL is a stronger acid or a weaker acid than the acid that you identified in part (a)(i). Justify your prediction in terms of chemical bonding.
- (b) Write the equation for the reaction that occurs between hypochlorous acid and water.
- (c) A 1.2 M NaOCI solution is prepared by dissolving solid NaOCI in distilled water at 298 K. The hydrolysis reaction OCI (ag) + H₂O(l)

 → HOCl(ag) + OH (ag) occurs.
 - Write the equilibrium-constant expression for the hydrolysis reaction that occurs between OCI*(aq) and H₂O(l).
 - (ii) Calculate the value of the equilibrium constant at 298 K for the hydrolysis reaction.
 - (iii) Calculate the value of [OH-] in the 1.2 M NaOCI solution at 298 K.

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Peiyue Li,Xiaodong He,Jianhua Wu,Vetrimurugan Elumalai

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New Problems Marianna Kulka, 2013-06-19 The medicinal use of plants animals and microorganisms has been a part of human evolution and likely began before recorded history Is it possible that this knowledge can be used to create powerful new drugs and solve some of the human health problems facing us today This book is a collection of an expert team of agronomists chemists biologists and policy makers who discuss some of the processes involved in developing a naturally sourced bioactive compound into a drug therapy These experts define a natural compound and elucidate the processes required to find extract and define a naturally derived bioactive molecule Finally they describe the necessity for understanding the fundamental mechanisms of disease before applying bioactive molecules in bioassay guided drug Applied Case Studies and Solutions in Molecular Docking-Based Drug Design Dastmalchi, discovery platforms Siavoush, 2016-05-11 As the pharmaceutical industry continues to advance new techniques in drug design are emerging In order to deliver optimum care to patients the development of innovative pharmacological techniques has become a widely studied topic Applied Case Studies and Solutions in Molecular Docking Based Drug Design is a pivotal reference source for the latest scholarly research on the progress of pharmaceutical design and computational approaches in the field of molecular docking Highlighting innovative research perspectives and real world applications this book is ideally designed for professionals researchers practitioners and medical chemists actively involved in computational chemistry and Multiscale Molecular Methods in Applied Chemistry Barbara Kirchner, Jadran pharmaceutical sciences Vrabec, 2012-01-25 First Principles Based Multiscale Multiparadigm Molecular Mechanics and Dynamics Methods for Describing Complex Chemical Processes by A Jaramillo Botero R Nielsen R Abrol J Su T Pascal J Mueller and W A Goddard Dynamic QM MM A Hybrid Approach to Simulating Gas Liquid Interactions by S Yockel and G C Schatz Multiscale Modelling in Computational Heterogeneous Catalysis by F J Keil Real World Predictions from Ab Initio Molecular Dynamics Simulations by B Kirchner P J di Dio and J Hutter Nanoscale Wetting Under Electric Field from Molecular Simulations by C D Daub D Bratko and A Luzar Molecular Simulations of Retention in Chromatographic Systems Use of Biased Monte Carlo Techniques to Access Multiple Time and Length Scales by J L Rafferty J I Siepmann M R Schure Thermodynamic Properties for Applications in Chemical Industry via Classical Force Fields by G Guevara Carrion H Hasse and J Vrabec Multiscale Approaches and Perspectives to Modeling Aqueous Electrolytes and Polyelectrolytes by L Delle Site C Holm and N F A van der Vegt Coarse Grained Modeling for Macromolecular Chemistry by H A Karimi Varzaneh and F M ller Plathe

Pharmacology for Anesthetists, Monoclonal Antibodies Steven Shire, 2015-04-24 Monoclonal antibodies MAbs are currently the major class of protein bio therapeutic being developed by biotechnology and pharmaceutical companies Monoclonal Antibodies discusses the challenges and issues revolving around development of a monoclonal antibody produced by recombinant DNA technology into a therapeutic agent This book covers downstream processing which includes design of processes to manufacture the formulation formulation design fill and finish into closure systems and routes of administration

The characterization of the final drug product is covered where the use of biophysical methods combined with genetic engineering is used to understand the solution properties of the formulation The latter has become very important since many indications such as arthritis and asthma require the development of formulations for subcutaneous delivery SC The development of formulations for IV delivery is also important and comes with a different set of challenges The challenges and strategies that can overcome these limitations are discussed in this book starting with an introduction to these issues followed by chapters detailing strategies to deal with them Subsequent chapters explore the processing and storage of mAbs development of delivery device technologies and conclude with a chapter on the future of mAbs in therapeutic remedies Discusses the challenges to develop MAbs for intravenous IV and subcutaneous delivery SC Presents strategies to meet the challenges in development of MAbs for SC and IV administration Discusses the use of biophysical analytical tools coupled with MAb engineering to understand what governs MAb properties at high concentration The Business of Sustainability Chris Laszlo, Karen Christensen, Daniel S. Fogel, Gernot Wagner, Peter J. Whitehouse, 2010-01-01 The Business of Sustainability is a core resource for policy makers members of the development community entrepreneurs and corporate executives as well as business and economics students and their professors It contains rich analysis of how sustainability is being factored into industries across the globe with enlightening case studies of businesses serving as agents of change Contributing authors provide a groundbreaking body of research based knowledge They explain that the concept of sustainability is being reframed to be positive about business instead of being tied to the old notion of a trade off between business and society that is if business wins society and the environment must lose and they explore how economic development can contribute to building our common future Sustainable Groundwater and Environment: Challenges and Solutions Peivue Li, Xiaodong He, Jianhua Wu, Vetrimurugan Elumalai, 2025-02-17 This book addresses this challenge head on focusing on the intersection of groundwater sustainability and environmental health It explores the complex relationship between groundwater management and environmental integrity delving into topics like the impacts of groundwater extraction on ecosystems the role of groundwater in climate change adaptation and mitigation and the effects of surface water groundwater exchange on groundwater quality The book also highlights the latest scientific research technological advancements in the field of sustainable groundwater management Moreover this book not only identifies the challenges but also proposes viable solutions It presents a range of practices innovative solutions and policy recommendations to manage groundwater resources effectively while minimizing environmental impact These will be drawn from a variety of contexts and case studies making the book a comprehensive guide for researchers policy makers practitioners and students in the field By providing a holistic perspective on sustainable groundwater management this book contributes significantly to our collective efforts toward achieving water security and environmental sustainability Handbook of Software Solutions for ICME Georg J. Schmitz, Ulrich Prahl, 2016-10-31 As one of the results of an ambitious project this handbook provides a well

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