DRAFT RELEASED FRQ ANSWERS AP CHEMISTRY 2014

(numbers in parentheses and red, represent *guesstimate* points)

Question 1

(a) (i) $Pb^{2+}_{(aq)} + 2I^-_{(aq)} \rightarrow PbI_{2(s)}$ (1)

(ii) Potassium and nitrate ions are in solution at the beginning of the reaction and at the end, do not change in any way (i.e., they are spectators), and as such can be omitted from the equation. (1)

(b) In order to ensure that the mass of the precipitate includes only the mass of the solid and none of the water, repeated drying will ensure that all of the water is removed before a final mass is recorded. (1)

(c) Less than. If the lead(II) nitrate were added in the stoichiometric ratio, the conc. of K^+ and NO_3^- would be 1:1, but since the lead(II) nitrate is added in excess, the nitrate ions are present in the larger conc. (1)

(d) 1.698 – 1.462 = 0.236 g of precipitate.

Moles of precipitate = $\frac{0.236 g}{(207.2 + 126.91 + 126.91 g mol^{-1})} \frac{8.434 \times 2}{207.2 + 126.91 + 126.91 g mol^{-1}} = 5.12 \times 10^{-4}$ moles (1)

(e) Mass of I^- = (2) (moles of PbI_2) (126.91 g mol^{-1}) = 0.130 g

Mass % of I^- = $\frac{0.130 g}{0.425 g} \times 100$ $\frac{\text{mass of I}^-}{\text{mass of tablet}}$ (100) = 30.6% (2)

(f) The same since the water plays no part in the mass of I^- present (this assumes all of the I^- is still precipitated by excess lead (II) nitrate, the tablets are the same and that the precipitate is dried completely as before etc.). (1)

(g) (i) Yes, since like lead(II) ions, silver ions also form an insoluble precipitate with iodide ions and since the Ksp is sufficiently small to suggest a precipitation will occur. (1)

(ii) No, IF after subtracting the mass of the dried precipitate + filter paper, from the mass of filter paper, yields a mass that has less than three significant figures, or

Yes, IF after subtracting the mass of the dried precipitate + filter paper, from the mass of filter paper, yields a mass that has at least three significant figures. (1)

(No is the expected answer I feel, BUT it does depend on the mass of the tablet IMO).

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A Loxley

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International Women of Supramolecular Chemistry Jennifer Hiscock,Claudia Caltagirone,Anna McConnell,Cally Jo Elizabeth Haynes,Emily Draper,2022-03-17 **Recent Advances in NGF and Related Molecules** Laura Calzà,Luigi Aloe,Luciana Giardino,2021-08-27 More than fifty years after its initial discovery by Rita Levi Montalcini and Stanley Cohen and the proposal of the neurotrophic theory nerve growth factor NGF has become the prototype of a family of biologically active molecules called neurotrophic factors NTFs This book addresses important advances in NTF research from basic science to clinical medicine It focuses mainly on NGF but also includes individual chapters dealing with the brain derived neurotrophic factor BDNF and ligands of the glial cell line derived neurotrophic factor GDNF family which have attracted increasing interest in the neuroscience community because of their diverse effects in the normal and diseased brain In the first part of the book the authors provide the necessary background for the following chapters and discuss the basic mechanisms and pathways of NGF signal transduction In the following sections they then examine the regenerative activity and neuroprotective capacity of NGF during development and in normal and diseased tissues in adulthood and discuss the role of NGF in Alzheimer s disease and nociception In addition the role of NGF in processing sensory information and its influence on behavior is further discussed The book concludes with an overview of the diagnostic and therapeutic potential of NTF in psychiatric disorders and obesity management as well as a highlight of NGF research in veterinary medicine Many of the authors of this volume participated in the Second International Rita Levi Montalcini Meeting held in Bologna Italy in 2019 The book covers a wide range of important topics in past and current NTF research and will appeal to basic researchers and clinicians alike When Chemistry Meets Biology – Generating Innovative Concepts, Methods and Tools for Scientific Discovery in the Plant Sciences Erich Kombrink,Markus Kaiser,2016-08-12 Biologically active small molecules have increasingly been applied in plant biology to dissect and understand biological systems This is evident from the frequent use of potent and selective inhibitors of enzymes or other biological processes such as transcription translation or protein degradation In contrast to animal systems which are nurtured from drug research the systematic development of novel bioactive small molecules as research tools for plant systems is a largely underexplored research area This is surprising since bioactive small molecules bear great potential for generating new powerful tools for dissecting diverse biological processes In particular when small molecules are integrated into genetic strategies thereby defining chemical genetics they may help to circumvent inherent problems of classical forward genetics There are now clear examples of important fundamental discoveries originating from plant chemical genetics that demonstrate the power but not yet fully exploited potential of this experimental approach These include the unraveling of molecular mechanisms and critical steps in hormone signaling activation of defense reactions and dynamic intracellular processes The intention of this Research Topic of Frontiers in Plant Physiology is to summarize the current status of research at the interface between chemistry and biology and to identify

future research challenges The research topic covers diverse aspects of plant chemical biology including the identification of bioactive small molecules through screening processes from chemical libraries and natural sources which rely on robust and quantitative high throughput bioassays the critical evaluation and characterization of the compound s activity selectivity and ultimately the identification of its protein target s and mode of action which is yet the biggest challenge of all Such well characterized selective chemicals are attractive tools for basic research allowing the functional dissection of plant signaling processes or for applied purposes if designed for protection of crop plants from disease New methods and data mining tools for assessing the bioactivity profile of compounds exploring the chemical space for structure function relationships and comprehensive chemical fingerprinting metabolomics are also important strategies in plant chemical biology In addition there is a continuing need for diverse target specific bioprobes that help profiling enzymatic activities or selectively label protein complexes or cellular compartments To achieve these goals and to add suitable probes and methods to the experimental toolbox plant biologists need to closely cooperate with synthetic chemists The development of such tailored chemicals that beyond application in basic research can modify traits of crop plants or target specific classes of weeds or pests by collaboration of applied and academic research groups may provide a bright future for plant chemical biology The current Research Topic covers the breadth of the field by presenting original research articles methods papers reviews perspectives and opinions **Isaiah Shavitt** Ron Shepard,Russell M. Pitzer,Thom Dunning,2015-10-15 In this Festschrift dedicated to the late Isaiah Shavitt 1925 2012 selected researchers in theoretical chemistry present research highlights on major developments in the field Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal **Guosen Yan** Hua Guo,Daiqian Xie,Weitao Yang,2015-07-17 In this Festschrift dedicated to the 85th birthday of Professor Guosen Yan selected researchers in theoretical chemistry present research highlights on major developments in the field Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal **Electrochemistry and Catalytic Reactions Editor's Pick 2024** Tomas Ramirez Reina,Nosang Vincent Myung,2024-12-24 We are pleased to introduce the collection Frontiers in Chemistry Electrochemistry and Catalytic Reactions Editor s Pick 2024 This collection showcases the most well received spontaneous articles from the past couple of years and has been specially handpicked by our Chief Editors The work presented here highlights the broad diversity of research performed across the sections and aims to put a spotlight on the main areas of interest All research presented here displays strong advances in theory experiment and methodology with applications to

compelling problems **Advanced Decisions in Engineering Practice** You Jun Wang,Dong Sheng Zhang,Yang Yu Wang,2015-04-30 2014 Global Conference on Digital Design and Manufacturing Technology DDMTC 2014 November 27 29 2014 Hanzhong China **Science News** ,2009 *Physics Briefs* ,1988 **Shargel and Yu's Applied Biopharmaceutics & Pharmacokinetics, 8th Edition** Murray P. Ducharme,Leon Shargel,Andrew B. C. Yu,2022-01-24 The authoritative textbook on the principles and practical applications of biopharmaceutics and pharmacokinetics Shargel Yu s Applied Biopharmaceutics Pharmacokinetics has been the standard textbook in its field for over 40 years This eighth edition includes recent scientific developments in the field and embodies the collective contribution of experts with deep knowledge and experience in the selected subject areas Shargel Yu s Applied Biopharmaceutics Pharmacokinetics Eighth Edition provides the reader with a fundamental understanding of biopharmaceutics and pharmacokinetics principles that can be applied to patient drug therapy and rational drug product development Shargel Yu s Applied Biopharmaceutics Pharmacokinetics Eighth Edition has been expanded and revised to include advancements in biopharmaceutics and pharmacokinetics The chapter sequence has been reorganized into four main sections providing a more logical sequence for students The textbook starts with fundamental concepts followed by application of these principles to optimize drug therapy and to the rational development of drug products Each chapter includes theoretical concepts with practical examples and clinical applications Frequently asked questions provide a discussion of overall concepts Features Expanded and revised chapters to include scientific advances in biopharmaceutics and pharmacokinetics Four main sections providing a natural buildup of knowledge introduction to biopharmaceutics and pharmacokinetics fundamentals of biopharmaceutics pharmacokinetic calculations clinical pharmacokinetics and pharmacodynamics and biopharmaceutics and pharmacokinetics in drug product development Additional chapters for this edition include o Physiological factors related to drug absorption o Approaches to pharmacokinetics and pharmacodynamics calculations o Novel and complex dosage Forms o Clinical Development and Therapeutic Equivalence of Generic Drug and Biosimilar Products o Pharmacokinetics and Pharmacodynamics in Clinical Drug Product Development Additional information on drug therapy drug product performance and other related topics Frequently asked questions practice problems clinical examples and learning questions **Agricultural and Biological Chemistry** ,1988 Journal of the Physical Society of Japan ,2015 **Positron Annihilation - ICPA-17** Zhi Quan Chen,C.Q. He,Y.C. Wu,N. Qi,2017-03-24 Selected peer reviewed papers from the 17th International Conference on Positron Annihilation ICPA 17 September 20 25 Wuhan China Current Index to Conference Papers in Chemistry ,1970 Mines and Methods ,1911 **The Annual Index to The Times** ,1912 Palmer's index to the Times newspaper ,1912 The Colliery Guardian and Journal of the Coal and Iron Trades ,1930 **Chemistry and Industry** ,2012 **Encyclopedia of Nuclear Magnetic Resonance: Historical perspectives** ,1996 Volume 1 Historical Perspectives contains 200 historical articles arranged alphabetically by author describing developments during the 50 years of the technique of NMR Volume 2 8

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