

AP Chemistry Chapter 4 Practice Exam

D

1. The Claus reactions, shown below, are used to generate elemental sulfur from hydrogen sulfide.

How much sulfur (in grams) is produced from 21.5 grams of O_2 ?

A) 97.0 g

B) 14.4 g

C) 21.5 g

D) 43.1 g

E) none of these

$$\frac{21.5 \text{ g O}_2}{32.00 \text{ g O}_2} \times \frac{1 \text{ mol O}_2}{1 \text{ mol O}_2} \times \frac{2 \text{ SO}_2}{3 \text{ O}_2} \times \frac{3 \text{ S}}{\text{SO}_2} \times \frac{32.06 \text{ g S}}{1 \text{ mol S}} = 43.1 \text{ g S}$$

B

2. Iron is produced from its ore by the reactions:

How many moles of $\text{O}_2(g)$ are needed to produce 4.6 moles of $\text{Fe}(s)$?A) 2.3 mole O_2 B) 3.5 mole O_2 C) 4.6 mole O_2 D) 6.9 mole O_2 E) 13.8 mole O_2

$$\frac{4.6 \text{ mol Fe}(s)}{2 \text{ Fe}} \times \frac{3 \text{ CO}}{2 \text{ Fe}} \times \frac{1 \text{ O}_2}{2 \text{ CO}} = 3.45 \text{ mol O}_2$$

B

3. Suppose the reaction
- $\text{Ca}_3(\text{PO}_4)_2 + 3\text{H}_2\text{SO}_4 \rightarrow 3\text{CaSO}_4 + 2\text{H}_3\text{PO}_4$
- is carried out starting with 153 g of
- $\text{Ca}_3(\text{PO}_4)_2$

and 76.8 g of H_2SO_4 . How much phosphoric acid will be produced?

A) 76.7 g

B) 51.1 g

C) 229.8 g

D) 115.1 g

E) 96.7 g

$$\frac{153 \text{ g Ca}_3(\text{PO}_4)_2}{310.18 \text{ g Ca}_3(\text{PO}_4)_2} \times \frac{1 \text{ mol Ca}_3(\text{PO}_4)_2}{1 \text{ mol Ca}_3(\text{PO}_4)_2} \times \frac{2 \text{ H}_3\text{PO}_4}{1 \text{ Ca}_3(\text{PO}_4)_2} = 0.97 \text{ mol H}_3\text{PO}_4$$

$$\frac{76.8 \text{ g H}_2\text{SO}_4}{98.08 \text{ g H}_2\text{SO}_4} \times \frac{1 \text{ mol H}_2\text{SO}_4}{1 \text{ mol H}_2\text{SO}_4} \times \frac{2 \text{ H}_3\text{PO}_4}{3 \text{ H}_2\text{SO}_4} = 0.51 \text{ mol H}_3\text{PO}_4$$

B

- 4.
- SO_2
- reacts with
- H_2S
- as follows:

When 7.50 g of H_2S reacts with 12.75 g of SO_2 , which statement applies?

A) 6.38 g of sulfur are formed.

B) 10.6 g of sulfur are formed.C) 0.0216 moles of H_2S remain.D) 1.13 g of H_2S remain.E) SO_2 is the limiting reagent.

$$\frac{7.50 \text{ g H}_2\text{S}}{34.08 \text{ g H}_2\text{S}} \times \frac{1 \text{ mol H}_2\text{S}}{1 \text{ mol H}_2\text{S}} \times \frac{3 \text{ S}}{2 \text{ H}_2\text{S}} \times \frac{32.06 \text{ g S}}{1 \text{ mol S}} = 10.89 \text{ g S}$$

$$\frac{12.75 \text{ g SO}_2}{64.06 \text{ g SO}_2} \times \frac{1 \text{ mol SO}_2}{1 \text{ mol SO}_2} \times \frac{3 \text{ S}}{1 \text{ SO}_2} \times \frac{32.06 \text{ g S}}{1 \text{ mol S}} = 19.13 \text{ g S}$$

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Yi-Tong Ma



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Developing and Validating Test Items Thomas M. Haladyna, Michael C. Rodriguez, 2013-07-18 Since test items are the building blocks of any test learning how to develop and validate test items has always been critical to the teaching learning process As they grow in importance and use testing programs increasingly supplement the use of selected response multiple choice items with constructed response formats This trend is expected to continue As a result a new item writing book is needed one that provides comprehensive coverage of both types of items and of the validity theory underlying them This book is an outgrowth of the author s previous book Developing and Validating Multiple Choice Test Items 3e Haladyna 2004 That book achieved distinction as the leading source of guidance on creating and validating selected response test items Like its predecessor the content of this new book is based on both an extensive review of the literature and on its author s long experience in the testing field It is very timely in this era of burgeoning testing programs especially when these items are delivered in a computer based environment Key features include Comprehensive and Flexible No other book so thoroughly covers the field of test item development and its various applications Focus on Validity Validity the most

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Handbook of Research on Science Education, Volume II Norman G. Lederman,Sandra K. Abell,2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science

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Chemistry For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Kate Brutlag,2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam *Library Literature & Information Science* ,2008 An index to library and information science literature **McGraw-Hill's SAT, 2008 Edition book only** Christopher Black,Mark Anestis,2007-06-19 We Want to Help You Succeed on the SAT We ve put all of our proven expertise into McGraw Hill s SAT to make sure you re ready for this difficult exam With this book you ll get essential skill building techniques and strategies developed by a team of renowned test prep tutors Their innovative teaching methods and expert coaching will help you

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The Science Teacher ,2009 **Biophysico-Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems** Nicola Senesi,Baoshan Xing,Pan Ming Huang,2009-07-23 An up to date resource on natural nonliving organic matter Bringing together world renowned researchers to explore natural nonliving organic matter NOM and its chemical biological and ecological importance Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems offers an integrated view of the dynamics and processes of NOM This multidisciplinary approach allows for a comprehensive treatment encompassing all the formation processes properties reactions environments and analytical techniques associated with the latest research on NOM After briefly outlining the historical background current ideas and future prospects of the study of NOM the coverage examines The formation mechanisms of humic substances Organo clay complexes The effects of organic matter amendment Black carbon in the environment Carbon sequestration and dynamics in soil Biological activities of humic substances Dissolved organic matter Humic substances in the rhizosphere Marine organic matter Organic matter in atmospheric particles In addition to the above topics the coverage includes such relevant analytical techniques as separation technology analytical pyrolysis and soft ionization mass

spectrometry nuclear magnetic resonance EPR FTIR Raman UV visible adsorption fluorescence and X ray spectroscopies and thermal analysis Hundreds of illustrations and photographs further illuminate the various chapters An essential resource for both students and professionals in environmental science environmental engineering water science soil science geology and environmental chemistry Biophysico Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems provides a unique combination of the latest discoveries developments and future prospects in this field

Johnstone Triangle Norman Reid, 2021-01-18 Chemistry is often seen as a difficult subject to understand This book focusses on the triangle model that Alex H Johnstone developed in the early 1980s Originally conceived in the context of making chemistry more accessible to a wider range of learners the model has been applied in almost every area of education in chemistry at all stages of learning In looking at why chemistry is difficult there are two central questions Firstly does the problem relate to the nature of chemistry and secondly does it relate to the way humans gain understanding Both were found to be important and the answers to the two question were found to be connected The triangle model arose from sustained research into human learning The central finding from research is the critical role of working memory and the model rationalises so much evidence from chemistry education research as well as the repeated experiences of teachers of chemistry at all levels In order to understand chemistry it is essential to develop sound mental models of molecular reality It generates major implications for the way a chemistry curriculum should be constructed and the processes of teaching and learning in chemistry when the goal is focussed on understanding the key ideas Some of these implications are developed and pointers offered to more successful ways forward The power of the Johnstone Triangle lies in the way it offers clear directions for all involved in chemistry education It is hoped that this book will prove helpful to all involved in sharing the exciting story of the way humans have come to understand the molecular world one of the great examples of great human endeavour

Structural Biology in Drug Discovery Jean-Paul Renaud, 2020-02-05 With the most comprehensive and up to date overview of structure based drug discovery covering both experimental and computational approaches Structural Biology in Drug Discovery Methods Techniques and Practices describes principles methods applications and emerging paradigms of structural biology as a tool for more efficient drug development Coverage includes successful examples academic and industry insights novel concepts and advances in a rapidly evolving field The combined chapters by authors writing from the frontlines of structural biology and drug discovery give readers a valuable reference and resource that Presents the benefits limitations and potentiality of major techniques in the field such as X ray crystallography NMR neutron crystallography cryo EM mass spectrometry and other biophysical techniques and computational structural biology Includes detailed chapters on druggability allostery complementary use of thermodynamic and kinetic information and powerful approaches such as structural chemogenomics and fragment based drug design Emphasizes the need for the in depth biophysical characterization of protein targets as well as of therapeutic proteins and for a thorough quality assessment of

experimental structures Illustrates advances in the field of established therapeutic targets like kinases serine proteinases GPCRs and epigenetic proteins and of more challenging ones like protein protein interactions and intrinsically disordered proteins *Handbook of Research on Developing Competencies for Pre-Health Professional Students, Advisors, and Programs* Ganjoo, Rohini, Schwartz, Lisa S., 2022-05-27 Today there is a significant need for healthcare professionals across disciplines and sectors as the world faces unprecedented health challenges and adopts innovative healthcare technologies Despite this demand for a competent and eager healthcare workforce the education and processes to becoming a qualified healthcare professional are complex and intricate which may turn people away from this path due to confusion fear or doubt In order to encourage and support those involved in medical education further study on the best practices and challenges of developing confident and capable health professionals is required The Handbook of Research on Developing Competencies for Pre Health Professional Students Advisors and Programs provides insight into the critical skills and expertise essential for those interested in pursuing employment in healthcare as well as current procedures and training to support them during their academic and professional careers Covering topics such as lifelong learning skills healthcare professions and strategic learning this major reference work is crucial for advisors nurses healthcare professionals academicians researchers practitioners scholars instructors and students Computational Network Analysis with R Matthias Dehmer, Yongtang Shi, Frank Emmert-Streib, 2016-12-12 This new title in the well established Quantitative Network Biology series includes innovative and existing methods for analyzing network data in such areas as network biology and chemoinformatics With its easy to follow introduction to the theoretical background and application oriented chapters the book demonstrates that R is a powerful language for statistically analyzing networks and for solving such large scale phenomena as network sampling and bootstrapping Written by editors and authors with an excellent track record in the field this is the ultimate reference for R in Network Analysis *Snowbird* Ellen D. Ketterson, Jonathan W. Atwell, 2016-03-30 At birdfeeders and in backyards across North America the dark eyed junco or snowbird can be found foraging for its next meal With an estimated population of at least 630 million juncos inhabit forests parks and even suburban habitats making them one of the continent s most abundant and easily observable songbirds But while common and widespread juncos also exhibit extraordinary diversity in color shape size and behavior across their range making them ideal study subjects for biologists interested in ecology and evolutionary diversification Intended for scholars citizen scientists and amateur ornithologists alike Snowbird synthesizes decades of research from the diverse and talented researchers who study the Junco genus Though contributors approach their subject from a variety of perspectives they share a common goal elucidating the organismal and evolutionary processes by which animals adapt and diversify in response to environmental change Placing special emphasis on the important role that underlying physiological hormonal and behavioral mechanisms play in these processes Snowbird not only provides a definitive exploration of the junco s evolutionary history and behavioral and physiological diversity but also underscores the

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