

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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Rainer Höfer



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CliffsNotes AP Chemistry Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

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 important consideration in testing is stressed throughout and is based on the Standards for Educational and Psychological Testing currently under revision by AERA APA and NCME Illustrative Examples The book presents various selected and constructed response formats and uses many examples to illustrate correct and incorrect ways of writing items Strategies for training item writers and developing large numbers of items using algorithms and other item generating methods are also presented Based on Theory and Research A comprehensive review and synthesis of existing research runs throughout the book and complements the expertise of its authors **The Science Teacher** ,2009 **McGraw-Hill's SAT, 2009 Edition**

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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

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Protein Interactions Jianfeng Cai, Rongsheng Wang, 2012-03-16 Protein interactions which include interactions between proteins and other biomolecules are essential to all aspects of biological processes such as cell growth, differentiation and apoptosis. Therefore investigation and modulation of protein interactions are of significance as it not only reveals the mechanism governing cellular activity but also leads to potential agents for the treatment of various diseases. The objective of this book is to highlight some of the latest approaches in the study of protein interactions including modulation of protein interactions, development of analytical techniques etc. Collectively they demonstrate the importance and the possibility for the further investigation and modulation of protein interactions as technology is evolving.

Renewable Resources for Surface Coatings, Inks and Adhesives Rainer Höfer, 2022-11-11 Providing a detailed survey of renewable raw materials for paints, inks and glues, this book is ideal for researchers and practitioners working in the areas of green chemistry, industrial chemistry and sustainability. Beginning with a brief history of coatings and adhesives, this book walks the reader through the chemistry, properties, sourcing and processing of a number of renewable raw materials including lipids, natural resins, proteins and carbohydrates. Their use in a range of recent developments and concepts from material protection to decorative paints and coatings, adhesives and sealants is highlighted, providing the reader with a complete and modern foundation to the field.

Environmental and Construction Engineering: Reality and the Future Sergey Vasil'yevich Klyuev, Alexander Vasil'yevich Klyuev, 2021-06-06 This book gathers the latest advances, innovations and applications in the field of construction engineering as presented by researchers and engineers at the International Conference Environmental and Construction Engineering Reality and the Future held in Belgorod, Russia, on May 18-19, 2021. It covers highly diverse topics including industrial and civil construction, building materials, environmental engineering and sustainability, machines, aggregates and processes in construction. The contributions, which were selected by means of a rigorous international peer review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Alberta Oil Sands, 2012-11-07 At 170 billion barrels, Canada's Oil Sands are the third largest reserves of

developable oil in the world The Oil Sands now produce about 1.6 million barrels per day with production expected to double by 2025 to about 3.7 million barrels per day The Athabasca Oil Sands Region AOSR in northeastern Alberta is the largest of the three oil sands deposits Bitumen in the oil sands is recovered through one of two primary methods mining and drilling About 20 per cent of the reserves are close to the surface and can be mined using large shovels and trucks Of concern are the effects of the industrial development on the environment Both human made and natural sources emit oxides of sulphur and nitrogen trace elements and persistent organic compounds Of additional concern are ground level ozone and greenhouse gases Because of the requirement on operators to comply with the air quality regulatory policies and to address public concerns the not for profit multi stakeholder Wood Buffalo Environmental Association WBEA has since 1997 been closely monitoring air quality in AOSR In 2008 WBEA assembled a distinguished group of international scientists who have been conducting measurements and practical research on various aspects of air emissions and their potential effects on terrestrial receptors This book is a synthesis of the concepts and results of those on going studies It contains 19 chapters ranging from a global perspective of energy production measurement methodologies and behavior of various air pollutants during fossil fuel production in a boreal forest ecosystem towards designing and deploying a multi disciplinary proactive and long term environmental monitoring system that will also meet regulatory expectations Covers measurement of emissions from very large industrial sources in a region with huge international media profile Validation of measurement technologies can be applied globally The new approaches to ecological monitoring described can be applied in other forested regions

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