

IB SL and HL Topic 1 to 5 Chemistry MCQ 40 Marks

1. What amount of oxygen, O_2 , (in moles) contains 1.8×10^{22} molecules?

- A. 0.0030
- B. 0.030
- C. 0.30
- D. 3.0

(Total 1 mark)

2. Which compound has the empirical formula with the greatest mass?

- A. C_2H_6
- B. C_4H_{10}
- C. C_3H_{10}
- D. C_6H_6

(Total 1 mark)

3. $__ C_2H_2(g) + __ O_2(g) \rightarrow __ CO_2(g) + __ H_2O(g)$

When the equation above is balanced, what is the coefficient for oxygen?

- A. 2
- B. 3
- C. 4
- D. 5

(Total 1 mark)

4. 3.0 dm^3 of sulfur dioxide is reacted with 2.0 dm^3 of oxygen according to the equation below.



What volume of sulfur trioxide (in dm^3) is formed? (Assume the reaction goes to completion and all gases are measured at the same temperature and pressure.)

- A. 5.0
- B. 4.0
- C. 3.0
- D. 2.0

(Total 1 mark)

May 2009 Chemistry Sl Paper

Johannes Karl Fink



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The Chemistry of Bio-based Polymers Johannes Karl Fink, 2014-02-24 An exhaustive and timely overview of renewable polymers from a respected chemist and successful author The recent explosion of interdisciplinary research has fragmented the knowledge base surrounding renewable polymers The Chemistry of Bio based Polymers brings together in one volume the research and work of Professor Johannes Fink focusing on biopolymers that can be synthesized from renewable polymers After introducing general aspects of the field the book s subsequent chapters examine the chemistry of biodegradable polymeric types sorted by their chemical compounds including the synthesis of low molecular compounds Various categories of biopolymers are detailed including vinyl based polymers acid and lactone polymers ester and amide polymers carbohydrate related polymers and others Procedures for the preparation of biopolymers and biodegradable nanocomposites are arranged by chemical methods and in vitro biological methods with discussion of the issue of plastics from bacteria The factors influencing the degradation and biodegradation of polymers used in food packaging exposed to various environments are detailed at length The book covers the medical applications of bio based polymers concentrating on controlled drug delivery temporary prostheses and scaffolds for tissue engineering Professor Fink also addresses renewable resources for fabricating biofuels and argues for localized biorefineries as biomass feedstocks are more efficiently handled locally Audience The Chemistry of Bio based Polymers will be read by chemists polymer and materials scientists chemical bio based and biomedical engineers agricultural and environmental faculty and all those who work in the bioeconomy area This book will be critical for engineers in a number of industries including food packaging medical devices personal care fuels auto and construction

Materials Chemistry Bradley D. Fahlman, 2011-03-18 The 2nd edition of Materials Chemistry builds on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association TAA Materials Chemistry addresses inorganic organic and nano based materials from a structure vs property treatment providing a suitable breadth and depth coverage of the rapidly evolving materials field in a concise format The 2nd edition continues to offer innovative coverage and practical perspective throughout e g the opening solid state chemistry chapter uses color illustrations of crystalline unit cells and digital photos of models to clarify their structures This edition features more archetypical unit cells and includes fundamental principles of X ray crystallography and band theory In addition an ample amorphous solids section has been expanded to include more details regarding zeolite syntheses as well as ceramics classifications and their biomaterial applications The subsequent metals chapter has been re organized for clarity and continues to treat the full spectrum of powder metallurgical methods complex phase behaviors of the Fe C system and steels and topics such as corrosion and shape memory properties The mining processing of metals has also been expanded to include photographs of various processes occurring in an actual steelmaking plant The semiconductor chapter addresses evolution and limitations solutions of modern transistors as well as IC fabrication and photovoltaics Building on the

fundamentals presented earlier more details regarding the band structure of semiconductors is now included as well as discussions of GaAs vs Si for microelectronics applications and surface reconstruction nomenclature The emerging field of soft lithographic patterning is now included in this chapter and thin film deposition methodologies are also greatly expanded to now include more fundamental aspects of chemical vapor deposition CVD and atomic layer deposition ALD The polymer and soft materials chapter represents the largest expansion for the 2nd edition This chapter describes all polymeric classes including dendritic polymers as well as important additives such as plasticizers and flame retardants and emerging applications such as molecular magnets and self repairing polymers This edition now features click chemistry polymerization silicones conductive polymers and biomaterials applications such as biodegradable polymers biomedical devices drug delivery and contact lenses Final chapters on nanomaterials and materials characterization techniques are also carefully surveyed focusing on nomenclature synthetic techniques and applications taken from the latest scientific literature The 2nd edition has been significantly updated to now include nanotoxicity vapor phase growth of 0 D nanostructures and more details regarding synthetic techniques and mechanisms for solution phase growth of various nanomaterials Graphene recognized by the 2010 Nobel Prize in Physics is now also included in this edition Most appropriate for Junior Senior undergraduate students as well as first year graduate students in chemistry physics or engineering fields Materials Chemistry may also serve as a valuable reference to industrial researchers Each chapter concludes with a section that describes important materials applications and an updated list of thought provoking questions The appendices have also been updated with additional laboratory modules for materials synthesis e g porous silicon and a comprehensive timeline of major materials developments

UNEP Year Book 2010 Unep,2010-04-22 The UNEP Year Book 2010 is essential informative and authoritative reading and reports on new environmental science plus recent developments in our changing environment It looks at progress in environmental governance the effects of continuing degradation and loss of the world s ecosystems impacts of climate change how harmful substances and hazardous waste effect human health and the environment environmentally related disasters and conflicts and unsustainable use of resources Water is a recurrent theme in this seventh edition Each chapter considers water related environmental changes together with a number of challenges and opportunities

Journal of the Indian Chemical Society Indian Chemical Society,2009 **Energy Options Impact on Regional Security** Frano Barbir,Sergio Ulgiati,2010-09-02 Energy appears to be a fundamental driving force of economic and political strategies as well as planetary stability Energy related issues such as 1 the availability of new energy sources and viable technologies 2 the disparity in access to energy sources 3 the role of energy in our societies energy societal metabolism 4 the energy support to the life of our cities where about half of world population is going to live very soon and 5 the energy demand for food security all over the world are hot problems that humans will have to face within the framework of sustainability ecologically sound production and consumption patterns associated with socially acceptable life styles in

terms of policies technological development and economic processes A coherent energy strategy is required addressing both energy supply and demand security of access development problems equity market dynamics by also taking into account the whole energy lifecycle including fuel production transmission and distribution energy conversion and the impact on energy equipment manufacturers and the end users of energy systems Issues of energy efficiency and rebound effect must also be taken into proper account In the short term the aim should be to achieve higher energy efficiencies and increased supply from local energy sources in particular renewable energy sources

Technical Assessment of Dry Ice Limits on Aircraft Michael John Murphy,T. I. McSweeney,2013 TRB s Hazardous Materials Cooperative Research Program HMCRP Report 11 Technical Assessment of Dry Ice Limits on Aircraft describes a technical approach to determining the maximum quantity of dry ice that may be safely carried aboard aircraft The report includes guidelines for helping to determine safe limits for carriage of dry ice on commercial airplanes and a CD ROM based software tool designed to assist in determining appropriate dry ice loadings The CD ROM is packaged with the print version of the report Publisher s description

Euro-Par 2011: Parallel Processing Workshops Michael Alexander,Pasqua D'Ambra,Adam Belloum,George Bosilca,Mario Cannataro,Marco Danelutto,Beniamino Di Martino,Michael Gerndt,Emmanuel Jeannot,Raymond Namyst,Jean Roman,Stephen L. Scott,Jesper Larsson Traff,Geoffroy Vallee,Josef Weidendorfer,2012-04-14 This book constitutes thoroughly refereed post conference proceedings of the workshops of the 17th International Conference on Parallel Computing Euro Par 2011 held in Bordeaux France in August 2011 The papers of these 12 workshops CCPI CGWS HeteroPar HiBB HPCVirt HPPC HPSS HPCF PROPER CCPI and VHPC focus on promotion and advancement of all aspects of parallel and distributed computing

Sustainable Value Creation in the Fine and Speciality Chemicals Industry R. Rajagopal,2014-06-12 The global fine and speciality chemicals industry is a vital segment within the chemical value chain catering to a multitude of societal and industrial needs Regulatory sustainability and consumer forces have been constantly shaping the business fundamentals of this industry Developing value creation strategies which embed economic environmental and social sustainability components will need a comprehensive assessment of business scientific and technological challenges facing the industry Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry It discusses innovative strategies in feedstocks R D technology manufacturing resource management and the supply chain as well as the significance of the bio based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry Topics covered include Transformation in the fine and speciality chemicals business Sustainable management evolution transitions and tools Research and technology directions Resource optimization strategies Bio based chemicals specialities and polymers Sustainable practices in the fine and speciality chemicals industry Sustainable value creation strategies Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for

sustainability management in the global fine and speciality chemicals industry It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically environmentally and socially sustainable practices for the future

Electrochemical Energy Pei Kang Shen,Chao-Yang Wang,San Ping Jiang,Xueliang Sun,Jiujun Zhang,2018-10-08 Electrochemical Energy Advanced Materials and Technologies covers the development of advanced materials and technologies for electrochemical energy conversion and storage The book was created by participants of the International Conference on Electrochemical Materials and Technologies for Clean Sustainable Energy ICES 2013 held in Guangzhou China and incorporates select papers presented at the conference More than 300 attendees from across the globe participated in ICES 2013 and gave presentations in six major themes Fuel cells and hydrogen energy Lithium batteries and advanced secondary batteries Green energy for a clean environment Photo Electrocatalysis Supercapacitors Electrochemical clean energy applications and markets Comprised of eight sections this book includes 25 chapters featuring highlights from the conference and covering every facet of synthesis characterization and performance evaluation of the advanced materials for electrochemical energy It thoroughly describes electrochemical energy conversion and storage technologies such as batteries fuel cells supercapacitors hydrogen generation and their associated materials The book contains a number of topics that include electrochemical processes materials components assembly and manufacturing and degradation mechanisms It also addresses challenges related to cost and performance provides varying perspectives and emphasizes existing and emerging solutions The result of a conference encouraging enhanced research collaboration among members of the electrochemical energy community Electrochemical Energy Advanced Materials and Technologies is dedicated to the development of advanced materials and technologies for electrochemical energy conversion and storage and details the technologies current achievements and future directions in the field

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