

SECTION - I

Q. 1. Select and write the most appropriate answers from the given alternatives for each sub-question :

[7]

- (i) The Arrhenius equation is _____.
- (a) $k = A e^{\frac{RT}{E_a}}$ (b) $A = k e^{\frac{-E_a}{RT}}$
- (c) $k = A e^{\frac{-RT}{E_a}}$ (d) $k = A e^{\frac{-K_a}{RT}}$
- (ii) If the enthalpy of vaporisation of water at 100°C is 186.5 J . mol⁻¹, the entropy of vaporization will be _____.
- (a) 4.0 J . K⁻¹. mol⁻¹ (b) 3.0 J . K⁻¹. mol⁻¹
- (c) 1.5 J . K⁻¹. mol⁻¹ (d) 0.5 J . K⁻¹. mol⁻¹
- (iii) The atomicity of sulphur in orthorhombic sulphur is _____.
- (a) 8 (b) 6 (c) 4 (d) 2
- (iv) The major binding force in diamond is _____.
- (a) Covalent bond (b) Ionic bond
- (c) Metallic bond (d) Co-ordinate covalent bond
- (v) The boiling point of water at high altitude is low, because _____.
- (a) the temperature is low. (b) the atmospheric pressure is low.
- (c) the temperature is high. (d) the atmospheric pressure is high.
- (vi) The molar conductivity of cation and anion of salt BA are 180 and 220 mhos respectively. The molar conductivity of salt BA at infinite dilution is _____.
- (a) 90 mhos.cm². (b) 110 mhos.cm².mol⁻¹
- (c) 200 mhos.cm².mol⁻¹ (d) 400 mhos.cm².mol⁻¹
- (vii) What is the process in which concentrated ore is reduced to the corresponding metal by heating at high temperature with a reducing agent?
- (a) Polling (b) Pyrometallurgy (c) Hydrometallurgy (d) Calcination

Q. 2. Answer any THREE of the following :

[9]

- (i) Describe anomalous behaviour of oxygen as compared with other elements of group 16 with reference to –
- (a) Magnetic property (b) Oxidation state (c) Hydrides
- (ii) What is the value of $\Delta S_{\text{surr.}}$ for the following reaction at 298 K –
- $$6\text{CO}_{2(g)} + 6\text{H}_2\text{O}_{(l)} \longrightarrow \text{C}_6\text{H}_{12}\text{O}_{6(s)} + 6\text{O}_{2(g)}$$
- Given that : $\Delta G^\circ = 2879 \text{ kJ mol}^{-1}$, $\Delta S = -210 \text{ JK}^{-1} \text{ mol}^{-1}$.
- (iii) Sucrose decomposes in acid solution to give glucose and fructose according to the first order rate law. The half life of the reaction is 3 hours. Calculate fraction of sucrose which will remain after 8 hours.
- (iv) A solution containing 0.73 g of camphor (molar mass 152 g . mol⁻¹) in 36.8 g of acetone (boiling point 56.3°C) boils at 56.55°C. A solution of 0.564 g of unknown compound in the same weight of acetone boils at 56.46°C. Calculate the molar mass of the unknown compound.

Hsc 2014 Chemistry Paper

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Neelameggham**

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Cambridge Checkpoints HSC Chemistry 2017-19 Maureen Slade, Roger Slade, 2016-06-29 **Energy Technology 2014** Cong Wang, Jan de Bakker, Cynthia K. Belt, Animesh Jha, Neale R. Neelameggham, Soobhankar Pati, Leon H. Prentice, Gabriella Tranell, Kyle S. Brinkman, 2013-12-30 This book addresses the issues intricacies and challenges relating to energy and environmental sciences Papers cover various technological aspects of sustainable energy eco systems and processes that improve energy efficiency and reduce and sequester carbon dioxide CO₂ and other greenhouse emissions The collection also emphasizes the need for sustainable technologies in extractive metallurgy materials processing and manufacturing industries with reduced energy consumption and CO₂ emission Industrial energy efficient technologies include innovative ore beneficiation smelting technologies recycling and waste heat recovery The book also carries contributions from all areas of non nuclear and non traditional energy sources including renewable energy sources such as solar wind and biomass Papers from the following symposia are presented in the book Energy Technologies and Carbon Dioxide Management High temperature Material Systems for Energy Conversion and Storage Solar Cell Silicon

Material Science, Civil Engineering and Architecture Science, Mechanical Engineering and Manufacturing Technology II H.W. Liu, G. Wang, G.W. Zhang, 2014-09-30 Selected peer reviewed papers from the 2014 3rd International Conference on Advanced Engineering Materials and Architecture Science ICAEMAS 2014 July 26 27 2014 Huhhot Inner Mongolia China **Chemistry**, 2015 Past HSC Papers for Chemistry Includes past HSC papers and worked solutions for the years 2009 to 2014 **Chemistry**, 2014 Past HSC Papers for Chemistry Includes past HSC papers and worked solutions for the years 2001 to 2014 A comprehensive guide on how to achieve success in the HSC with essential exam techniques and how to study an HSC Examination question by question topic guide glossary of examination terms High Temperature Experimental Techniques and Measurements 2 Torsten Markus, Rob Walker, Greg Jackson, 2015 **Gold Ore Processing** Mike D. Adams, 2016-05-03 Gold Ore Processing Project Development and Operations Second Edition brings together all the technical aspects relevant to modern gold ore processing offering a practical perspective that is vital to the successful and responsible development operation and closure of any gold ore processing operation This completely updated edition features coverage of established newly implemented and emerging technologies updated case studies and additional topics including automated mineralogy and geomettallurgy cyanide code compliance recovery of gold from e waste handling of gaseous emissions mercury and arsenic emerging non cyanide leaching systems hydro re mining water management solid liquid separation and treatment of challenging ores such as double refractory carbonaceous sulfides Outlining best practices in gold processing from a variety of perspectives Gold Ore Processing Project Development and Operations is a must have reference for anyone working in the gold industry including metallurgists geologists chemists mining engineers and many others Includes several new chapters presenting established newly implemented and emerging technologies in gold ore

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Advances in Analytical and Coordination Chemistry - Applications and Innovations Mozaniel Santana de Oliveira,Berta Barta Holló,Muhammad Zafar,Eloisa Helena De Aguiar Andrade,Mirjana M. Radanović,2025-02-26 This comprehensive work explores recent analytical and coordination chemistry advancements highlighting how cutting edge research drives innovation across diverse industries The book covers topics such as the versatile chemistry of Schiff bases and chelating agents advanced chromatographic techniques microfluidics and crystallization processes among others The text emphasizes the potential of Schiff bases and their metal complexes in practical applications including materials science sustainable energy e g solar cells and industrial processes such as petroleum field operations It also explores innovative analytical technologies such as chromatographic methods for isolating bioactive molecules and microfluidic systems for medical diagnostics underscoring the interdisciplinary role of analytical chemistry in healthcare and environmental science Additionally the book examines crystallization processes and their impact on material properties featuring detailed studies on sulfur curing systems and their influence on elastomer performance These insights offer valuable guidance for industrial applications Authored by renowned experts this volume is an essential resource for researchers academics and industry professionals seeking to stay at the forefront of analytical and coordination chemistry

Yearbook of International Organizations 2014-2015 (Volume 2) Union Of International Associations,Union of International Associations,2014-07-16 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located

A New Era for Microbial Corrosion Mitigation Using Nanotechnology Basma A. Omran,Mohamed Omar Abdel-Salam,2020-07-16 This book focuses on corrosion and microbial corrosion providing solutions for these problems based on nanotechnology and nanobiotechnology It introduces the causes consequences cost and control of corrosion processes It gives a particular emphasis on microbial corrosion of steel and other metals in oil gas and shipping industries The book presents the materials vulnerable to such kind of corrosion and the use of nanomaterials to control it

Materials Processing Fundamentals 2018 Guillaume Lambotte,Jonghyun Lee,Antoine Allanore,Samuel Wagstaff,2018-01-09 This book includes contributions from the Materials Processing Fundamentals Symposium held at the TMS 2018 Annual Meeting Exhibition in Phoenix Arizona Covering the physical and numerical modeling of materials processing the volume covers a

range of metals and minerals Authors present models and results related the basics of processing such as extraction joining separation and casting The corresponding fundamentals of mass and heat transport as well as physical and thermodynamics properties are addressed allowing for a cross disciplinary vision of the field *Rare Metal Technology 2021* Gisele Azimi,Takanari Ouchi,Kerstin Forsberg,Hojong Kim,Shafiq Alam,Alafara Abdullahi Baba,Neale R. Neelameggham,2021-02-16 This collection presents papers from a symposium on extraction of rare metals as well as rare extraction processing techniques used in metal production It covers metals essential for critical modern technologies including electronics electric motors generators energy storage systems and specialty alloys Rare metals are the main building blocks of many emerging critical technologies and have been receiving significant attention in recent years Much research in academia and industry is devoted to finding novel techniques to extract critical and rare metals from primary and secondary sources The technologies that rely on critical metals are dominating the world and finding a way to extract and supply them effectively is highly desirable and beneficial Rapid development of these technologies entails fast advancement of the resource and processing industry for their building materials Authors from academia and industry exchange knowledge on developing operating and advancing extractive and processing technologies Contributions cover rare earth elements magnets catalysts phosphors and others energy storage materials lithium cobalt vanadium graphite alloy elements scandium niobium titanium and materials for electronics gallium germanium indium gold silver The contributions also cover various processing techniques in mineral beneficiation hydrometallurgy separation and purification pyrometallurgy electrometallurgy supercritical fluid extraction and recycling batteries magnets electrical and electronic equipment **Proceedings of the 8th International Symposium on Heating, Ventilation and Air Conditioning** Angui Li,Yingxin Zhu,Yuguo Li,2013-09-24 Proceedings of the 8th International Symposium on Heating Ventilation and Air Conditioning is based on the 8th International Symposium of the same name ISHVAC2013 which took place in Xi an on October 19 21 2013 The conference series was initiated at Tsinghua University in 1991 and has since become the premier international HVAC conference initiated in China playing a significant part in the development of HVAC and indoor environmental research and industry around the world This international conference provided an exclusive opportunity for policy makers designers researchers engineers and managers to share their experience Considering the recent attention on building energy consumption and indoor environments ISHVAC2013 provided a global platform for discussing recent research on and developments in different aspects of HVAC systems and components with a focus on building energy consumption energy efficiency and indoor environments These categories span a broad range of topics and the proceedings provide readers with a good general overview of recent advances in different aspects of HVAC systems and related research As such they offer a unique resource for further research and a valuable source of information for those interested in the subject The proceedings are intended for researchers engineers and graduate students in the fields of Heating Ventilation and Air Conditioning HVAC indoor environments energy systems and building information and

management Angui Li works at Xi an University of Architecture and Technology Yingxin Zhu works at Tsinghua University and Yuguo Li works at The University of Hong Kong

Celebrating the Megascale Phillip Mackey, Eric Grimsey, Rodney Jones, Geoffrey Brooks, 2016-12-02 The volume contains more than 70 papers covering the important topics and issues in metallurgy today including papers as follows keynote papers covering a tribute to David Robertson workforce skills needed in the profession going forward copper smelting ladle metallurgy process metallurgy and resource efficiency new flash iron making technology ferro alloy electric furnace smelting and on the role of bubbles in metallurgical processing operations Topics covered in detail in this volume include ferro alloys non ferrous metallurgy iron and steel modeling education and fundamentals

Chemistry Karen Enkelaar, Rosemary Peers, 2020 Excel Success One HSC Chemistry contains 2001 2014 2015 2018 past HSC questions and past 2019 HSC paper with detailed answers written by experienced HSC markers a topic index a mark maximizer guide and a glossary of key verbs This title helps you get the results you want by practising actual HSC papers and answering HSC level questions

Diamond: Genesis, Mineralogy and Geochemistry Karen Smit, Steve Shirey, Graham Pearson, Thomas Stachel, Fabrizio Nestola, Thomas Moses, 2023-06-06 Diamond is the record setter in many mineralogical properties such as hardness diffusivity thermal conductivity purity and covalency of bonding Similarly diamond as the premier gemstone of the mantle holds primacy for geological features such as age and depth of origin Diamond was among the first crystalline structures to be solved by X ray diffraction and the first materials measured for their Raman spectrum At more than 80 billion USD in yearly commercial value diamond sets the record for the most traded valuable mineral on the planet Despite its chemical simplicity diamond has been the object of more research effort and had more scientific and popular press pages written about it than any other mineral

Proceedings of the 4th International Gas Processing Symposium, 2015-06-15 Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries This trend is driven by environmental economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock Despite the recent global economic uncertainty the oil and gas industry is expected to continue its growth globally especially in emerging economies The expansion in LNG capacity coupled with recently launched and on stream GTL plants poses real technological and environmental challenges These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization sustainability and excellence in gas processing Provides state of the art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry

Light Metals 2024 Samuel Wagstaff, 2024-02-03 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The

annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2024 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Scandium Extraction and Use in Aluminum Alloys Chapter s Online Monitoring of Metal Oxides in Molten Fluoride Electrolytes is available open access under a Creative Commons Attribution 4 0 International License via Springerlink Graduate Programs in the Biological/Biomedical Sciences & Health-Related Medical Professions 2014 (Grad 3) Peterson's,2013-12-20 Peterson s Graduate Programs in the Biological Biomedical Sciences Health Related Medical Professions 2014 contains comprehensive profiles of nearly 6 800 graduate programs in disciplines such as allied health biological biomedical sciences biophysics cell molecular structural biology microbiological sciences neuroscience neurobiology nursing pharmacy pharmaceutical sciences physiology public health and more Up to date data collected through Peterson s Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students requirements expenses financial support faculty research and unit head and application contact information There are helpful links to in depth descriptions about a specific graduate program or department faculty members and their research and more There are also valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies Directory Medical Library Association,1994

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