

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) $k = A e^{\frac{-E_a}{RT}}$
- (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.

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Instruments and Methods for Cyclotron Produced Radioisotopes Saverio Braccini, Francisco Alves, 2020-01-15 The focus of this Special Issue is aimed at enhancing the discussion of Engineering Education particularly related to technological and professional learning In the 21st century students face a challenging demand they are expected to have the best scientific expertise but also highly developed social skills and qualities like teamwork creativity communication or leadership Even though students and teachers are becoming more aware of this necessity there is still a gap between academic life and the professional world In this Special Edition Book the reader can find works tackling interesting topics such as educational resources addressing students development of competencies the importance of final year projects linked to professional environments and multicultural or interdisciplinary challenges

Cancer Nanotheranostics: What Have We Learned So Far? João Conde, Pedro Viana Baptista, Jesús M De La Fuente, Furong Tian, 2016-03-17 After a quarter of century of rapid technological advances research has revealed the complexity of cancer a disease intimately related to the dynamic transformation of the genome However the full understanding of the molecular onset of this disease is still far from achieved and the search for mechanisms of treatment will follow closely It is here that Nanotechnology enters the fray offering a wealth of tools to diagnose and treat cancer In fact the National Cancer Institute predicts that over the next years nanotechnology will result in important advances in early detection molecular imaging targeted and multifunctional therapeutics prevention and control of cancer Nanotechnology offers numerous tools to diagnose and treat cancer such as new imaging agents multifunctional devices capable of overcome biological barriers to deliver therapeutic agents directly to cells and tissues involved in cancer growth and metastasis and devices capable of predicting molecular changes to prevent action against precancerous cells Nanomaterials based delivery systems in Theranostics

Diagnostics discover how integrating cancer research and nanotechnology modeling can help patient diagnosis and treatment recognize how to translate nanotheranostics data into an actionable clinical strategy discuss with industry leaders how nanotheranostics is evolving and what the impact is on current research efforts and last but not least learn what approaches are proving fruitful in turning promising clinical data into treatment realities

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 compounds activity selectivity and ultimately the identification of its protein targets 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

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Cage Metal Complexes Yan Voloshin, Irina Belaya, Roland Krämer, 2017-05-11 This fundamental book presents the most comprehensive summary of the current state in chemistry of cage metal complexes After their previous book The Encapsulation Phenomenon www.springer.com 978 3 319 27737 0 the authors in this book focus on the encapsulation of metal ions by different types of three dimensional mono and polynucleating

caging ligands Within these cage metal complexes metal ions can be isolated from external factors The book provides both a classification of the cage compounds and summaries of synthetic approaches On that basis the authors then describe the unique chemical and physical properties and the resulting reactivity of the cage compounds as well as practical and potential applications as potent topological drugs and prodrugs antifibrillogenic agents radiodiagnostic and radiotherapeutic compounds paramagnetic probes single molecule magnets electrocatalysts for hydrogen production photo electronic devices and many more Readers will find a well structured and concise overview with particular emphasis on a review of synthesis and reactivity of various cage metal complexes summarizing over 400 literature references clearly presented in over 300 color schemes and figures

Guide to RRB Junior Engineer Stage II Exam - Physics, Chemistry, General

Awareness, Basics of Computers, Environment & Pollution Control Disha Experts, 2019-01-25 The book Guide to RRB Junior Engineer Stage II Online Exam has 4 sections common to all streams General Awareness Physics Chemistry Basics of Computers and Applications Basics of Environment and Pollution Control Each section is further divided into chapters which contains theory explaining the concepts involved followed by MCQ exercises The book provides the past 2014 2015 Solved Questions The detailed solutions to all the questions are provided at the end of each chapter

Bioterrorism Daniela Georgiana GOLEA, Catalin HIDEG, 2022-09-07 These are just some of the questions to be addressed in this paper We do not pretend to give the final and complete answers as the field under study still has many grey areas and even some areas completely unexplored by scientific research We aim to at least open the discussion on the subject of bioterrorism without claiming to be the supreme authority in the field or the final voice We do not even pretend that our work is relevant in terms of security solutions in such a complex and fluid security environment where situations and states of affairs can change dramatically from year to year However our aim in this series of papers on bioterrorism is to clarify a number of notions concepts and theoretical or practical issues necessary for the general public to understand what bioterrorism is all about and what we should expect in the coming years At the time of writing the COVID 19 crisis is still in full swing despite some apparent improvements over the last few weeks This may only be the beginning of a series of widening and deepening crises that are hitting human society again and again confronting it with great existential questions The current COVID 19 crisis is and will continue to be followed by severe economic and social impacts that are almost impossible to predict Situations in which crises break out everywhere and in all sorts of ways and situations in which the states of the world are gathering into increasingly isolated and hostile groups are nothing other than the specific preconditions for the outbreak of world conflicts We have no intention whatsoever of promoting defeatism or of creating and spreading alarmist rumours for who knows what obscure purposes The situation is simply worrying at times reaching alarming levels that go beyond mere fear of the future The bioterrorist phenomenon is beginning to emerge more and more clearly as a concrete threat to the present and the near future From this point of view an effort will have to be made or at least begun to enlighten the general public on how this

new threat could materialise Authors C t lin Hideg Daniela Georgiana Golea **Official Gazette of the United States Patent Office** United States. Patent Office,1928 **Official Gazette of the United States Patent Office** USA Patent Office,1928 **Handbook of Sustainable Apparel Production** Subramanian Senthilkannan Muthu,2015-04-28 A hot button societal issue sustainability has become a frequently heard term in every industrial segment Sustainability in apparel production is a vast topic and it has many facets Handbook of Sustainable Apparel Production covers all aspects of sustainable apparel production including the raw materials employed sustainable manufacturing proce **Electric Vehicles for Smart Cities** Evanthia A. Nanaki,2020-10-07 Electric Vehicles for Smart Cities Trends Challenges and Opportunities uniquely examines different approaches to electric vehicle deployment in the context of smart cities It provides a holistic picture of electromobility within urban areas offering an integrated approach to city transportation systems by considering the energy systems latest vehicle technologies and transport infrastructure Electric Vehicles for Smart Cities addresses the interaction between grid infrastructure vehicles costs and benefits and operational reliability within an integrated framework The book examines the role electric vehicles play in the social and political aspects of climate change mitigation as well as a renewable energy based economy It explains how electric vehicles and their system requirements work including recharging techniques and infrastructures and discusses alternative market deployment approaches Includes case studies from cities around the world including Amsterdam London Oslo Barcelona Los Angeles New York Silicon Valley Los Angeles Beijing Shanghai Tianjin Tokyo and Goto Islands Traces the developments innovations advantages and disadvantages in the electric car industry Provides learning aids such as discussion questions and text boxes *Climate Change* Bruce E. Johansen,2017-09-15 This three volume set presents entries and primary sources that will impress on readers that what we do or don t do today regarding climate change will dramatically influence what life on this planet will be like for untold numbers of generations How are the behaviors of birds butterflies and other migratory animals connected to climate change What does the term thermal inertia mean and what does this geophysical effect have on predicting what the planet s future will be like What is the context for the effects we are seeing on various forms of animal life from migrating birds to polar bears to mosquitoes that transmit Zika and other diseases Climate Change An Encyclopedia of Science Society and Solutions combines entries describing Earth s variable climatic history references to scientific literature weather record data and selected primary documents to present readers with a comprehensive account of global warming s effects worldwide By examining verifiable quantitative information such as the frequency and intensity of hurricanes and changes in the hydrological cycle as well as clear patterns and trends of alternating droughts and deluges and wildfires melting ice and rising seas readers will be able to understand why scientists are so concerned about the future of our climate Researchers will benefit from detailed explanations of scientific topics such as thermal inertia feedbacks and tipping points and receive invaluable context on the role of energy use in climate change including automobiles and air travel Readers will learn about

the role of China in the current global climate and in the future the widespread effects of climate change on agriculture and how indigenous peoples lives are being impacted from drought and the Navajos to hunters lives in the Arctic The work concludes with thought provoking debates regarding potential solutions from wind power and solar power to geo engineering

Proceedings of the Scientific-Practical Conference "Research and Development - 2016" K. V. Anisimov,A. V. Dub,S. K. Kolpakov,A. V. Lisitsa,A. N. Petrov,V. P. Polukarov,O. S. Popel,V. A. Vinokurov,2017-12-04 This open access book relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016 This event has summarized analyzed and discussed the interim results academic outputs and scientific achievements of the Russian Federal Targeted Programme Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014 2020 It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme computer science ecology energy and energy efficiency lifesciences nanoscience nanotechnology and transport communications The chapters report the results of the 3 years research projects supported by the Programme and finalized in 2016

Failure Modes, Effects and Causes of Microbiologically Influenced Corrosion Reza Javaherdashti,Farzaneh Akvan,2019-10-22 Failure Modes Effects and Causes of Microbiologically Influenced Corrosion Advanced Perspectives and Analysis presents academic research about microbial corrosion MIC integrating it into engineering applications that result in a more thorough understanding of MIC and how it is recognized and treated In addition new concepts that will be useful in understanding integrity and corrosion management practices are explored This book will be useful for industry professionals particularly maintenance and operation engineers corrosion and material engineers and R D personnel working in the field of corrosion protection Focuses on the skills and knowledge necessary to understand how Failure modes and why Effects and Causes materials fail Explains why corrosion control measures such as the use of coatings cathodic protection and inhibitors are useful Discusses the practical side of MIC treatment in terms of fundamental concepts of time and cost of operation

An Introduction to Climate Change Economics and Policy Felix R. FitzRoy,Elissaios Papyrakis,2016-04-14 The 2nd edition of An Introduction to Climate Change Economics and Policy explains the key scientific economic and policy issues related to climate change in a completely up to date introduction for anyone interested and students at all levels in various related courses including environmental economics international development geography politics and international relations FitzRoy and Papyrakis highlight how economists and policymakers often misunderstand the science of climate change underestimate the growing threat to future civilization and survival and exaggerate the costs of radical measures needed to stabilize the climate In contrast they show how direct and indirect costs of fossil fuels particularly the huge health costs of local pollution actually exceed the investment needed for transition to an almost zero carbon economy in two or three decades using available technology

Global Environment Outlook - GEO-6: Healthy Planet, Healthy People UN Environment,2019-06-06 Published to coincide with the Fourth United

Nations Environmental Assembly UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health By bringing together hundreds of scientists peer reviewers and collaborating institutions and partners the GEO reports build on sound scientific knowledge to provide governments local authorities businesses and individual citizens with the information needed to guide societies to a truly sustainable world by 2050 GEO 6 outlines the current state of the environment illustrates possible future environmental trends and analyses the effectiveness of policies This flagship report shows how governments can put us on the path to a truly sustainable future emphasising that urgent and inclusive action is needed to achieve a healthy planet with healthy people This title is also available as Open Access on Cambridge Core

Advanced Nanocarbon Materials Sarika Verma,Raju Khan,Avanish Kumar Srivastava,2022-05-04 This book provides a well focused and comprehensive overview of the history and background of nanocarbon based materials like carbon nanotubes graphene and fullerenes It discusses their structure synthesis properties and modifications for making various advanced materials The authors focus on their use in the health care sector as therapeutic agents in pharmacy and medicine in diagnosis and analysis in pharmacy and medicine as biosensors gene and drug delivery cancer therapy biosensing and bioimaging go based antibacterial materials and as a promising antioxidant and GO based scaffold for cell culture The authors also showcase the application potential of advanced nanocarbon based materials by examining the biomedical applications developed via novel advanced designing in which the technologies will be adopted and the end users can be benefited Finally the authors discuss the increasing research on carbon based materials along with the challenges they are currently facing along with possible solutions that may result in the availability of the accessible reliable and cost efficient technology The potential user for this book may be medical practitioners biologists pharmacists and chemists This book covers in depth knowledge of processing parameters for making nanocarbon based material for high end applications in the biomedical and pharmaceutical fields

Report of the Expert Meeting on Ciguatera Poisoning Food and Agriculture Organization of the United Nations ,World Health Organization,2020-06-01 Phytoplankton blooms micro algal blooms toxic algae red tides or harmful algae are all terms for naturally occurring phenomena that have occurred throughout recorded history About 300 hundred species of micro algae are reported at times to form mass occurrence so called blooms Nearly one fourth of these species are known to produce toxins Even non toxic algal blooms can have devastating impacts when they lead to kills of fish and invertebrates by generating anoxic conditions Some algal species although non toxic to humans can produce exudates that can cause damage to the delicate gill tissues of fish raphidophytes Chattonella Heterosigma and dinoflagellates Karenia Karlodinium Aquatic animals can suffer devastating mortalities which could lead economical and food losses and eventually became a food security problem Of greatest concern to humans are algal species that produce potent neurotoxins that can find their way through shellfish and fish to human consumers where they evoke a variety of gastrointestinal and neurological illnesses

paralytic shellfish poisoning PSP amnesic shellfish poisoning ASP diarrhoeic shellfish poisoning DSP neurotoxic shellfish poisoning NSP azaspiracid shellfish poisoning AZP and ciguatera fish poisoning CFP Worldwide ciguatoxins are estimated to cause around 50 000 cases of ciguatera fish poisoning annually neurological effects may last for weeks or even years and one percent of these cases are fatal Climate change and coastal water over enrichment create an enabling environment for harmful algal blooms which seem to have become more frequent more intense and more widespread in the past decades

Preparing for Future Products of Biotechnology National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on Future Biotechnology Products and Opportunities to Enhance Capabilities of the Biotechnology Regulatory System, 2017-06-28 Between 1973 and 2016 the ways to manipulate DNA to endow new characteristics in an organism that is biotechnology have advanced enabling the development of products that were not previously possible What will the likely future products of biotechnology be over the next 5 10 years What scientific capabilities tools and or expertise may be needed by the regulatory agencies to ensure they make efficient and sound evaluations of the likely future products of biotechnology Preparing for Future Products of Biotechnology analyzes the future landscape of biotechnology products and seeks to inform forthcoming policy making This report identifies potential new risks and frameworks for risk assessment and areas in which the risks or lack of risks relating to the products of biotechnology are well understood

Reader's Digest The Essential Guide to CBD Reader's Digest and Project CBD, 2021-03-23 The Reader's Digest Essential Guide to CBD is an authoritative but user friendly primer on CBD CBD has splashed across the nation's headlines taken the country by storm and has everyone from Coca Cola to Starbucks considering adding this new miracle supplement to their drinks But the FDA has only approved it for use in treating epilepsy in children What is CBD anyway What's the difference between CBD THC cannabis hemp and marijuana Can CBD help me lose weight How much CBD do I need to take to help my condition What do I look for when buying CBD Is it better to take CBD oil or gummies or what The Reader's Digest Guide to CBD will answer all of these questions and much more including both first person anecdotes of real people's experiences with CBD and straightforward reporting about what studies have actually been done and what they show Written in part by the experts at Project CBD the book will separate fact from fiction hype from reality

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