

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.

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Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded Preventing Chemical Weapons

Michael Crowley, Malcolm Dando, Lijun Shang, 2018-08-20 The life and chemical sciences are in the midst of a period of rapid and revolutionary transformation that will undoubtedly bring societal benefits but also have potentially malign applications notably in the development of chemical weapons Such concerns are exacerbated by the unstable international security environment and the changing nature of armed conflict which could fuel a desire by certain States to retain and use existing chemical weapons as well as increase State interest in creating new weapons whilst a broader range of actors may seek to employ diverse toxic chemicals as improvised weapons Stark indications of the multi faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria and also in more targeted chemical assassination operations in Malaysia and the UK Using a multi disciplinary approach and drawing upon an international group of experts this book analyses current and likely near future advances in relevant science and technology assessing the risks of their misuse The book examines the current capabilities limitations and failures of the existing international arms control and disarmament architecture notably the Chemical Weapons Convention in preventing the development and use of chemical weapons Through the employment of a novel Holistic Arms Control methodology the authors also look beyond the bounds of such treaties to explore the full range of international law international agreements and regulatory mechanisms potentially applicable to weapons employing toxic chemical agents in order to develop recommendations for more effective routes to combat their proliferation and misuse A particular emphasis is given to the roles that chemical and life scientists health professionals and wider informed activist civil society can play in protecting the prohibition against poison and chemical weapons and in working with States to build effective and responsive measures to ensure that the rapid scientific and technological advances are safeguarded from hostile use and are instead employed for the benefit of us all *Spin*

States in Biochemistry and Inorganic Chemistry Marcel Swart, Miquel Costas, 2015-09-17 It has long been recognized that metal spin states play a central role in the reactivity of important biomolecules in industrial catalysis and in spin crossover compounds As the fields of inorganic chemistry and catalysis move towards the use of cheap non toxic first row transition metals it is essential to understand the important role of spin states in influencing molecular structure bonding and reactivity *Spin States in Biochemistry and Inorganic Chemistry* provides a complete picture on the importance of spin states for reactivity in biochemistry and inorganic chemistry presenting both theoretical and experimental perspectives The successes and pitfalls of theoretical methods such as DFT ligand field theory and coupled cluster theory are discussed and these methods are applied in studies throughout the book Important spectroscopic techniques to determine spin states in transition metal complexes and proteins are explained and the use of NMR for the analysis of spin densities is described Topics covered include DFT and ab initio wavefunction approaches to spin states Experimental techniques for determining spin states Molecular discovery in spin crossover Multiple spin state scenarios in organometallic reactivity and gas phase reactions

Transition metal complexes involving redox non innocent ligands Polynuclear iron sulfur clusters Molecular magnetism NMR analysis of spin densities This book is a valuable reference for researchers working in bioinorganic and inorganic chemistry computational chemistry organometallic chemistry catalysis spin crossover materials materials science biophysics and pharmaceutical chemistry *Metallurgy and Corrosion Control in Oil and Gas Production* Robert Heidersbach, 2018-09-17 Details the proper methods to assess prevent and reduce corrosion in the oil industry using today's most advanced technologies This book discusses upstream operations with an emphasis on production and pipelines which are closely tied to upstream operations It also examines protective coatings alloy selection chemical treatments and cathodic protection the main means of corrosion control The strength and hardness levels of metals is also discussed as this affects the resistance of metals to hydrogen embrittlement a major concern for high strength steels and some other alloys It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated *Metallurgy and Corrosion Control in Oil and Gas Production* Second Edition updates the original chapters while including a new case studies chapter Beginning with an introduction to oilfield metallurgy and corrosion control the book provides in depth coverage of the field with chapters on chemistry of corrosion corrosive environments materials forms of corrosion corrosion control inspection monitoring and testing and oilfield equipment Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text *Metallurgy and Corrosion Control in Oil and Gas Production* Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries It will also be an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production *Errorless 11 Year-wise WBCS West Bengal Civil Services General Studies Prelims Previous Year Solved Papers (2010 - 23) 2nd Edition* | WBPSC , The 2nd Edition of the book *Errorless 11 Previous Years WBCS General Studies Prelim Year wise Solved Papers 2013-23* consists of Past 11 years Solved papers of West Bengal PSC Exam from 2013-2023 In all the book contains 2200 MCQs with detailed explanations The USP of the book is the detailed explanation of each question The answer key has been verified with the WBPSC The book is also useful for UPSC and other PSC Exams **The Economics of Oil** S.W. Carmalt, 2016-12-26 This book examines the ways that oil economics will impact the rapidly changing global economy and the oil industry itself over the coming decades The predictions of peak oil were both right and wrong Oil production has been constrained in relation to demand for the past decade with a resulting four fold increase in the oil price slowing the entire global economy High oil prices have encouraged a small increase in oil production and mostly from the short lived fracking revolution but enough to be able to claim that peak

oil was a false prophecy The high oil price has also engendered massive exploration investments but remaining hydrocarbon stocks generally offer poor returns in energy the energy return on investment or EROI and financial terms and no longer replace the reserves being produced As a result the economically powerful oil companies are under great pressure both financially and politically as oil remains the backbone of the global economy Development scenarios and political pressure for growth as a means of solving economic woes both require more net energy which is the amount of energy available after energy and thus financial inputs required for new sources to come on line are deducted In today's economy more energy usually means more oil Although a barrel of oil from any source may look the same tight oil and oil from tar sands require much higher prices to be profitable for the producer these expensive sources have very different economic implications from the conventional oil supplies that underpinned economic growth for most of the 20th century The role of oil in the global economy is not easily changed Since currently installed infrastructure assumes oil a change implies more than just substitution of an energy source The speed with which such basic structural changes can be made is also constrained and ultimately themselves dependent on fossil fuel inputs It remains unclear how this scenario will evolve and that uncertainty adds additional economic pressure to the investment decisions that must be made Drill baby drill and new pipeline projects may be attractive politically but projections of economic and associated oil production growth based on past performance are clearly untenable

Marine biomolecules Antonio Trincone, Mikhail Kusaykin, Svetlana Ermakova, 2015-10-02 Oceans include the greatest extremes of pressure temperature and light and habitats can range from tropical waters to ocean trenches several kilometers below sea level at high pressure With its 70% of the surface of our planet marine ecosystem still remains largely unexplored understudied and underexploited in comparison with terrestrial ecosystems organisms and bioprocesses The biological adaptation of marine organisms to a wide range of environmental conditions in the specific environment temperature salinity tides pressure radiation light etc has made them an enormous reservoir of interesting biological material for both basic research and biotechnological improvements As a consequence marine ecosystem is valued as a source of enzymes and other biomolecules exhibiting new functions and activities to fulfill human needs Indeed in recent years it has been recognised as an untapped source of novel enzymes and metabolites even though with regard to the assignment of precise biological functions to genes proteins and enzymes it is still considered as the least developed Using metagenomics to recover genetic material directly from environmental samples this biogenetic diversification can be accessed but despite the contributions from metagenomic technologies the new field requires major improvements A few words on the complexity of marine environments should be added here This complexity ranges from symbiotic relationships to biology and chemistry of defence mechanisms and from chemoeology of marine invasions up to the strategies found in prokaryotes to adapt to extreme environments The interdisciplinary study of this complexity will enable researchers to find an arsenal of enzymes and pathways greatly demanded in biotechnological applications As far as marine enzymes are

concerned they may carry novel chemical and stereochemical properties thus biocatalytically oriented studies testing of suitable substrates appropriate checking of reaction conditions study of stereochemical aspect of catalysis should be performed to appropriately reveal this chemical biodiversity which increases interest for these enzymes Among other biomolecules polysaccharides are the most abundant renewable biomaterial found on land and in oceans Their molecular diversity is very interesting except polysaccharides used traditionally in food and non food industries the structure and the functionality of most of them are unknown and unexplored Brown seaweeds synthesize unique bioactive polysaccharides laminarans alginic acids and fucoidans A wide range of biological activities anticoagulant antitumor antiviral anti inflammation etc have been attributed to fucoidans and their role with respect to structure activity relationship is still under debate In this Research Topic we wish to centralize and review contributions idea and comments related to the issues above In particular results of enzymatic bioprospecting in gross marine environment will be acknowledged along with research for structural characterization and biological function of biomolecules such as marine polysaccharides and all kind of research related to the complexity of bioprocesses in marine environments Inter and multi disciplinary approach to this field is favoured in this Research Topic and could greatly be facilitated by the web and open access nature as well

Fuzzy Logic and Mathematics Radim Bělohlávek, Joseph W. Dauben, George J. Klir, 2017 The main part of the book is a comprehensive overview of the development of fuzzy logic and its applications in various areas of human affair since its genesis in the mid 1960s This overview is then employed for assessing the significance of fuzzy logic and mathematics based on fuzzy logic

Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2020-11-24 The new edition of this popular book has been transformed into a hands on textbook focusing on the principles of wireless sensor networks WSNs their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology To make WSNs felt and seen the adopted technologies as well as their manufacturers are presented in detail In introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol This book starts some steps later with chapters ordered based on a topic s significance to the elaboration of wireless sensor networks WSNs concepts and issues With such a depth this book is intended for a wide audience it is meant to be a helper and motivator for both the senior undergraduates postgraduates researchers and practitioners concepts and WSNs related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus For senior undergraduate students it familiarizes readers with conceptual foundations applications and practical project implementations For graduate students and researchers transport layer protocols and cross layering protocols are presented and testbeds and simulators provide a must follow emphasis on the analysis methods and tools for WSNs For practitioners besides applications and deployment the manufacturers and components of WSNs at several platforms and testbeds are fully explored

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Papers NTPC Vol.-3 YCT Expert Team, Solved Papers NTPC Vol 3 2022 RRB NTPC Non Technical *Genetic Modification and Food Quality* Robert Blair, Joe M. Regenstein, 2015-08-03 The development of recombinant DNA methods has changed the face of the food industry over the last 50 years Crops which have been genetically modified are being cultivated in more and more countries and this process is likely to accelerate as desirable traits are identified and transferred to appropriate organisms and they are cleared by the regulatory authorities However the technique has its critics who claim that modification of the genome of the plant or animal in this way may pose unknown and unacceptable risks to the human consumer Genetic Modification and Food Quality A Down to Earth Analysis is the first comprehensive text on how GM production methods influence the quality of foods and feeds based on a complete and unbiased assessment of the scientific findings It presents a balanced analysis of the benefits and drawbacks of gene modified food sources in the human diet Chapters approach the topic with regard to different food types such as cereal grains oilseed crops vegetables fish and animal products Assessing the nutritive value as well as the health and safety of GMO foods this book is a reference for anyone working in the food production industry and will also be of an interest to NGOs trade associations and consumers who are looking for an objective balanced study of this contentious issue *Gregory S. Ezra* Srihari Keshavamurthy, Stephen Wiggins, 2015-06-01 In this Festschrift dedicated to the 60th birthday of Gregory S Ezra selected researchers in theoretical chemistry present research highlights on major developments in the field Originally published in the journal Theoretical Chemistry Accounts these outstanding contributions are now available in a hardcover print format as well as a special electronic edition This volume provides valuable content for all researchers in theoretical chemistry and will especially benefit those research groups and libraries with limited access to the journal **SSC JE Mechanical Book (Paper 1) - 8 Full Length Mock Tests and 3 Previous Year Papers (2200 Solved Objective Questions) with Free Access to Online Tests** EduGorilla Prep Experts, 2021-08 SSC is the conducting body of most competitive exams held in the country EduGorilla s SSC JE preparation book is for candidates who wish to give their services as Junior Engineer in the central government Practice with our model papers to ace the Junior Engineer Mechanical exam Our team of subject experts has drafted the questions in the sample paper book after deep research keeping in mind the latest patterns and guidelines given by the Staff Selection Commission The Questions given in the Mock Test Books are similar to the Online Computer Based Test of SSC JE exam EduGorilla s volume 1 preparation book for ME examination covers mock tests to give you the real time experience of the CBE exam Students holding a diploma or degree in mechanical engineering will find the book very essential for the preparation of the exam Samples papers given in our question bank have the same difficulty level as the Staff Selection Commission s exam Succeed in SSC JE with questions specially designed for the candidates aspiring for the various posts of engineers under the government Why EduGorilla Holistic Exam Preparation Well Researched Content Most Expected Questions in the Examination Well Structured Detailed Solutions Also provides Online Test Series and Mock Interviews The

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