

# CHEMISTRY

2014

Time: 20 Minutes

Max. Marks: 17

## SECTION A (MULTIPLE CHOICE QUESTIONS)

1. Choose the correct answer for each from the given options.

- i. If absolute temperature is doubled and pressure increased to 4 times, the volume:
- \* is halved
  - \* is doubled
  - \* becomes four times
  - \* remains unchanged
- ii. Additions of KCl to AgCl solutions causes:
- \* Increase in the ionization of AgCl
  - \* Decreases in the ionization of AgCl
  - \* No effects on the ionization of AgCl
  - \* Increases in the concentration of Ag<sup>+</sup> ion
- iii. Metals placed above hydrogen in the Electrochemical series:
- \* Are reducing agents
  - \* are oxidizing agents
  - \* Serve as cathode in comparison cell
  - \* have positive electrode potential
- iv. During experiment, average of several replicate measurements is taken because:
- \* It has no negative error
  - \* it shows positive error
  - \* it has no systematic error
  - \* It is more reliable
- v. The basis of motor oil grading is:
- \* Viscosity
  - \* Surface Tension
  - \* Vapour pressure
  - \* Boiling point
- vi. Diamond is very hard because of:
- \* sp<sup>2</sup>-hybridization
  - \* van der Waal's forces
  - \* Close packing of carbon atoms and large number of covalent bonds
  - \* Large amount of energy required to break the bonds
- vii. The colour of the universal indicator in basic solution is:
- \* Yellow
  - \* Green
  - \* Orange
  - \* Deep blue
- viii. In Pi-bond, electron density lies:
- \* only above the nodal plane
  - \* on the nodal plane
  - \* only below the nodal plane
  - \* both above and below the nodal plane
- ix. When the product of ionic concentrations of sparingly soluble salt is equal to its solubility product ( $K_{sp}$ ), the solution is said to be a:
- \* dilute solution
  - \* saturated solution
  - \* super saturated solution
  - \* Very dilute solution

# January 2014 As Chemistry Paper

**Anjan Kumar Chatterjee**



## January 2014 As Chemistry Paper:

Chemistry Education Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top level contributions provides a thorough review of the vibrant field of chemistry education Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching as well as the pivotal role of chemistry for shaping a more sustainable future Adopting a practice oriented approach the current challenges and opportunities posed by chemistry education are critically discussed highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them The main topics discussed include best practices project based education blended learning and the role of technology including e learning and science visualization Hands on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively from experience chemistry professors to secondary school teachers from educators with no formal training in didactics to frustrated chemistry students Engineering Chemistry-I (For 1st Semester of Anna University) Arun Luiz T., Engineering Chemistry I

**Quantitative Biology: Dynamics of Living Systems** Noriko Hiroi, Viji M. Draviam, Tetsuya J. Kobayashi, Akira Funahashi, Chun-Biu Li, Douglas B. Murray, Hiroaki Takagi, Ziya Kalay, Rinshi S. Kasai, Jason Edward Shoemaker, Akatsuki Kimura, Naoki A. Irie, 2017-07-24 With the emergence of Systems Biology there is a greater realization that the whole behavior of a living system may not be simply described as the sum of its elements To represent a living system using mathematical principles practical quantities with units are required Quantities are not only the bridge between mathematical description and biological observations they often stand as essential elements similar to genome information in genetics This important realization has greatly rejuvenated research in the area of Quantitative Biology Because of the increased need for precise quantification a new era of technological development has opened For example spatio temporal high resolution imaging enables us to track single molecule behavior in vivo Clever artificial control of experimental conditions and molecular structures has expanded the variety of quantities that can be directly measured In addition improved computational power and novel algorithms for analyzing theoretical models have made it possible to investigate complex biological phenomena This research topic is organized on two aspects of technological advances which are the backbone of Quantitative Biology i visualization of biomolecules their dynamics and function and ii generic technologies of model optimization and numeric integration We have also included articles highlighting the need for new quantitative approaches to solve some of the long standing cell biology questions In the first section on visualizing biomolecules four cutting edge techniques are presented Ichimura et al provide a review of quantum dots including their basic characteristics and their applications for example single particle tracking Horisawa discusses a quick and stable labeling technique using click chemistry with distinct advantages compared to fluorescent protein tags The

relatively small physical size stability of covalent bond and simple metabolic labeling procedures in living cells provides this type of technology a potential to allow long term imaging with least interference to protein function Obien et al review strategies to control microelectrodes for detecting neuronal activity and discuss techniques for higher resolution and quality of recordings using monolithic integration with on chip circuitry Finally the original research article by Amariei et al describes the oscillatory behavior of metabolites in bacteria They describe a new method to visualize the periodic dynamics of metabolites in large scale cultures populations These four articles contribute to the development of quantitative methods visualizing diverse targets proteins electrical signals and metabolites In the second section of the topic we have included articles on the development of computational tools to fully harness the potential of quantitative measurements through either calculation based on specific model or validation of the model itself Kimura et al introduce optimization procedures to search for parameters in a quantitative model that can reproduce experimental data They present four examples transcriptional regulation bacterial chemotaxis morphogenesis of tissues and organs and cell cycle regulation The original research article by Sumiyoshi et al presents a general methodology to accelerate stochastic simulation efforts They introduce a method to achieve 130 times faster computation of stochastic models by applying GPGPU The strength of such accelerated numerical calculation are sometimes underestimated in biology faster simulation enables multiple runs and in turn improved accuracy of numerical calculation which may change the final conclusion of modeling study This also highlights the need to carefully assess simulation results and estimations using computational tools

**Mppsc Solved Papers (2003-2020)** Anand Tripathi, 2022-02-10 Prepare for success in the Madhya Pradesh Public Service Commission MPPSC examinations with Anand Tripathi s invaluable resource MPPSC Solved Papers 2003 2020 This comprehensive collection of solved papers provides aspiring candidates with a strategic and insightful approach to mastering the nuances of the MPPSC examinations Embark on a journey of effective exam preparation as Tripathi meticulously compiles and analyzes the plot points of MPPSC question papers from 2003 to 2020 Each solved paper serves as a valuable learning opportunity offering a detailed breakdown of questions solutions and key concepts This approach provides readers with a thorough understanding of the exam pattern question types and the essential content needed for success Character analysis takes center stage as the book guides candidates through the intricacies of MPPSC exams Tripathi s expertise in decoding the questions and presenting clear solutions fosters a comprehensive understanding of the subject matter ensuring that readers are well equipped to tackle any challenges posed by the examinations Themes of strategic preparation time management and subject specific knowledge are intricately woven into the book offering readers valuable insights into the best practices for approaching MPPSC examinations Tripathi s guidance provides not only solutions but also a roadmap for effective study techniques and a structured approach to exam success The overall tone and mood of the book reflect the seriousness and determination required for MPPSC exam preparation Tripathi s approach is pragmatic creating an atmosphere of focused study and

strategic thinking that resonates with candidates aiming for success in these competitive exams Widely acclaimed for its accuracy and thoroughness MPPSC Solved Papers 2003 2020 caters to a diverse audience from aspirants seeking to crack the MPPSC exams to educators and mentors guiding students in their preparation journey The book has received praise for its ability to simplify complex problems making it an essential companion for those navigating the challenges of MPPSC exams Considering the broad audience this book serves as a valuable resource for anyone looking to understand the intricacies of MPPSC exams and enhance their exam preparation strategies Tripathi's compilation stands out for its detailed solutions and strategic insights making it an indispensable tool for candidates aiming to excel in the MPPSC examinations On a personal note the book resonates with the universal themes of dedication perseverance and strategic thinking essential for success in competitive exams It serves as an invitation to aspiring candidates guiding them through a structured and effective approach to conquering the challenges of MPPSC examinations Don't miss the opportunity to elevate your MPPSC exam preparation with MPPSC Solved Papers 2003 2020 by Anand Tripathi Grab your copy now and embark on a journey of strategic learning equipped with the insights and solutions needed to navigate the complexities of MPPSC examinations successfully

Engineering Tools for Environmental Risk Management Katalin Gruiz,Tamas Meggyes,Eva Fenyvesi,2015-04-27 Chemical substances physical agents and built structures exhibit various types of hazard due to their inherent toxic mutagenic carcinogenic reprotoxic and sensitizing character or damaging to the immune and hormone system The first steps in managing an environment contaminated by chemical substances are characterization of hazards and quantifi

Low-tech Magazine 2012-2018 Kris De Decker,2019-03-18 Low tech Magazine underscores the potential of past and often forgotten technologies and how they can inform sustainable energy practices Sometimes past technologies can be copied without any changes More often interesting possibilities arise when older technology is combined with new knowledge and new materials or when past concepts and traditional knowledge are applied to modern technology Inspiration is also to be found in the so called developing world where resource constraints often lead to inventive low tech solutions

**The Synthetic Nitrogen Industry in World War I** Anthony S. Travis,2015-07-03 This concise brief describes how the demands of World War I often referred to as the Chemists War led to the rapid emergence of a new key industry based on fixation of atmospheric nitrogen Then as now nitrogen products including nitric acid and nitrates were essential for both fertilizers and in the manufacture of modern explosives During the first decade of the twentieth century this stimulated research into and application of novel processes This book illustrates how from late 1914 the relations and developments in the first modern military industrial complex enabled the great capital expenditures and technological advances that accelerated massive expansion particularly of the BASF Haber Bosch high pressure process that determined the direction of the post war chemical industry

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**Sustainable Forest Management** John L. Innes,Anna V. Tikina,2016-12-19 Sustainable Forest Management provides the necessary material to educate students about forestry and the contemporary role of forests in ecosystems and society This comprehensive textbook on the concept and practice of sustainable forest management sets the standard for practice worldwide Early chapters concentrate on conceptual aspects relating sustainable forestry management to international policy In particular they consider the concept of criteria and indicators and how this has determined the practice of forest management taken here to be the management of forested lands and of all ecosystems present on such lands Later chapters are more practical in focus concentrating on the management of the many values associated with forests Overall the book provides a major new synthesis which will serve as a textbook for undergraduates of forestry as well as those from related disciplines such as ecology or geography who are taking a course in forests or natural resource management

**Innovators in Battery Technology** Kevin Desmond,2016-05-19 As the world s demand for electrical energy increases it will be the ingenuity and skill of brilliant electrochemists that enable us to utilize the planet s mineral reserves responsibly This biographical dictionary profiles 95 electrochemists from 19 nations who during the past 270 years have researched and developed ever more efficient batteries and energy cells Each entry traces the subject s origin education discoveries and patents as well as hobbies and family life The breakthroughs of early innovators are cataloged and the work of living scientists and technicians is brought up to date An appendix provides a cross referenced timeline of innovation

Singapore Hawker Classics Unveiled Temasek Polytechnic,2015-07-15 Produced as a celebration of Singapore s renowned culinary heritage Singapore Hawker Classics Unveiled tells you everything you ever needed to know and more about 25 of our favourite dishes The 25 delicious recipes featured will allow you to recreate your favourite classic hawker treats at home and inspire you to look at these familiar dishes in a new light each dish includes its traditional presentation together with an additional interpretation with a modern twist Moreover every dish is covered in great detail including information on its heritage its aroma taste and texture its nutritional value as well as clear step by step instructions and photographs

**Intelligent and Sustainable Cement Production** Anjan Kumar Chatterjee,2021-11-21 This book captures the path of digital transformation that the cement enterprises are adopting progressively to elevate themselves to Industry 4 0 level Digital innovations based Internet of Things IoT and Artificial Intelligence AI are pertinent technologies for the cement enterprises as the manufacturing processes operate at very large scales with multiple inputs outputs and variables resulting in the essentiality of big data management Featuring contributions from cement industries worldwide it covers various aspects of cement manufacturing from IoT machine learning and data analytics perspective It further discusses

implementation of digital solutions in cement process and plants through case studies Features Present an up to date consolidated view on modern cement manufacturing technology applying new systems Provides narration of complexity and variables in modern cement plants and processes Discusses evolution of automation and computerization for the manufacturing processes Covers application of ERP techniques to cement enterprises Includes data driven approaches for energy environment and quality management This book aims at researchers and industry professionals involved in cement manufacturing cement machinery and system suppliers chemical engineering process engineering industrial engineering and chemistry

**A Compelling Case for Universities** Quintin McKellar, 2025-05-01 This book unapologetically celebrates the achievements of the University Major drivers of enlightenment and powerhouses of the economy universities have evolved and thrived for over a thousand years While still reflecting their beginnings in medieval knowledge sharing communities modern universities have grown exponentially in both size and number Predictions suggest global student numbers will more than double from 216 million in 2016 to 472 million in 2035 This growth has demanded new models of funding as well as many new providers who have added diversity and complexity to the traditional idea of a university The author recounts this exciting evolution before turning to the major issues with which higher education is concerned today broadly following the student journey from admission to graduation and beyond A prospective university student first needs to gain a place the process throwing up important questions about access and equity Once admitted they can benefit from not only the education on offer but a wealth of extra curricular opportunities And research suggests that once they leave the experience of university will enrich their life in numerous ways With clear sighted chapters on research and innovation and thoughtful excursions into funding and governance together with some proposals for change this is a trenchant review of today's university landscape which nonetheless concludes that the current model of higher education is both highly effective and sufficiently adaptive Whilst facing up to difficult issues which must be addressed Professor McKellar derives satisfaction from the evidence of great overall achievement

**Encyclopedia of Automotive Engineering** , 2015-03-23 Erstmals eine umfassende und einheitliche Wissensbasis und Grundlage für weiterführende Studien und Forschung im Bereich der Automobiltechnik Die Encyclopedia of Automotive Engineering ist die erste umfassende und einheitliche Wissensbasis dieses Fachgebiets und legt den Grundstein für weitere Studien und tiefgreifende Forschung Weitreichende Querverweise und Suchfunktionen ermöglichen erstmals den zentralen Zugriff auf Detailinformationen zu bewährten Branchenstandards und -verfahren Zusammenhängende Konzepte und Techniken aus Spezialbereichen lassen sich so einfacher verstehen Neben traditionellen Themen des Fachgebiets beschäftigt sich diese Enzyklopädie auch mit neuen Technologien dem Übergang von der Mechanik zur Elektronik und den Möglichkeiten zur Herstellung sicherer effizienterer Fahrzeuge unter weltweit unterschiedlichen wirtschaftlichen Rahmenbedingungen Das Referenzwerk behandelt neun Hauptbereiche 1 Motoren Grundlagen 2 Motoren Design 3 Hybrid und Elektroantriebe 4 Getriebe und Antriebssysteme 5 Chassis Systeme 6

Elektrische und elektronische Systeme 7 Karosserie Design 8 Materialien und Fertigung 9 Telematik Zuverlässige Darstellung einer Vielzahl von Spezialthemen aus dem Bereich der Automobiltechnik Zugängliches Nachschlagewerk für Jungingenieure und Studenten die die technologischen Grundlagen besser verstehen und ihre Kenntnisse erweitern möchten Wertvolle Verweise auf Detailinformationen und Forschungsergebnisse aus der technischen Literatur Entwickelt in Zusammenarbeit mit der FISITA der Dachorganisation nationaler Automobil Ingenieur Verbände aus 37 Ländern und Vertretung von über 185 000 Ingenieuren aus der Branche Erhältlich als stets aktuelle Online Ressource mit umfassenden Suchfunktionen oder als Print Ausgabe in sechs Bänden mit über 4 000 Seiten Ein wichtiges Nachschlagewerk für Bibliotheken und Informationszentren in der Industrie bei Forschungs und Schulungseinrichtungen Fachgesellschaften Regierungsbehörden und allen Ingenieurstudenten Richtet sich an Fachingenieure und Techniker aus der Industrie Studenten höherer Semester und Studienabsolventen Forscher Dozenten und Ausbilder Branchenanalysen und Forscher **Nuclear**

**Modernization in the 21st Century** Aiden Warren, Philip M. Baxter, 2020-02-17 This collection examines the extent to which nuclear weapons modernization has become a significant point of concern and consideration in international security Recent statements and substantial investments by nuclear weapon possessor states in the upkeep and modernization of their nuclear postures particularly the United States Russia and China illustrate a return of primacy and the salience of nuclear forces in international politics The upgrading of systems the introduction of new capabilities the intermingling of new technologies and the advancement of new strategic models are all indicative of their elevation in importance and reliance With contributions from leading thinkers in the nuclear weapons domain this book elucidates the global strategic and policy implications such modernization efforts by the above mentioned states will have on international security In unpacking and conceptualizing this developing source of potential in security and tension the collection not only provides a technical context but also frames the likely effects modernization could have on the relations between these nuclear weapon powers and the larger impact upon efforts to curb nuclear weapons both in terms of horizontal and vertical proliferation The chapters have been arranged so as to inform a variety of stakeholders from academics to policy makers by connecting analytical and normative insights and thereby advancing debates pertaining to where nuclear modernization sits as a point of global security consternation in the 21st century **November 2019 Monthly Current Affairs with MCQs for Competitive**

**Exams** Disha Experts, 2019-10-21 **The Burning Answer** Keith Barnham, 2015-05-15 Our society faces a choice We could be enjoying a sustainable lifestyle but we have chosen not to In three generations we have consumed half the oil produced by photosynthesis over eight million generations In two generations we have used half our uranium resources With threats from global warming oil depletion and nuclear disaster we are running out of options Solar power as Keith Barnham says is our necessary solution Barnham explains that the roots of solar energy lie in a little known equation E=hf an equation which was coincidentally celebrated and explained to the world by Einstein in the same year he discovered E=mc<sup>2</sup> He alleges that the



former equation has been overlooked in favor of the latter much to our detriment and Barnham is here to offer us a solution We can still turn things around and solar energy is the key In this provocative inspiring passionately argued book Keith Barnham outlines actions that any one and all of us can take to make an impact now and on future generations The Burning Answer is a solar manifesto for the new climate aware generation and a must read for climate change skeptics Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks Hossam Mahmoud Ahmad Fahmy, 2023-02-13 The third edition of this hands on textbook pursues the focus 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 is some more steps after both horizontally and vertically the view and understanding are getting clearer chapters ordering is based on topics significance to the elaboration of wireless sensor networks WSNs concepts and issues This book is intended for a wide audience it is meant to be help and motivate 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 with conceptual foundations applications and practical projects implementations For graduate students and researchers energy efficient routing protocols transport layer protocols and cross layering protocols approach are presented 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 *Unlocking the Moon's Secrets* James Lawrence Powell, 2023 *Unlocking the Moon s Secrets* tells the fascinating story of how scientists solved the mystery of the Moon s origin and the cause of the Moon s craters By showing how science evolves complete with misunderstandings contentious arguments difficult to relinquish assumptions and shifting views as new facts come to light we can finally understand our Moon **A History of Forensic Science** Alison Adam, 2015-11-19 How and when did forensic science originate in the UK This question demands our attention because our understanding of present day forensic science is vastly enriched through gaining an appreciation of what went before A History of Forensic Science is the first book to consider the wide spectrum of influences which went into creating the discipline in Britain in the first part of the twentieth century This book offers a history of the development of forensic sciences centred on the UK but with consideration of continental and colonial influences from around 1880 to approximately 1940 This period was central to the formation of a separate discipline of forensic science with a distinct professional identity and this book charts the strategies of the new forensic scientists to gain an authoritative voice in the courtroom and to forge a professional identity in the space between forensic medicine scientific policing and independent expert witnessing In so

doing it improves our understanding of how forensic science developed as it did This book is essential reading for academics and students engaged in the study of criminology the history of forensic science science and technology studies and the history of policing

## Unveiling the Magic of Words: A Report on "**January 2014 As Chemistry Paper**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**January 2014 As Chemistry Paper**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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