

END TERM 1-2022

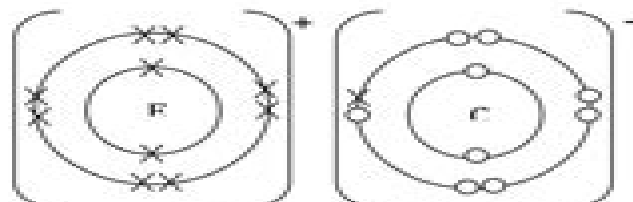
CHEMISTRY PAPER 2 (233/2)

FORM FOUR (4)

TIME: 2 HOURS

MARKING SCHEME

1. 1 (a) Alkaline-earth metals (1mk)
 (b) B (1mk)
 (c) (i) A_2B_3 (½mk) (ii) H_2SO_4 (½mk)
 (d)



Distribution of electrons (1mk) and charges (1mk)

No label (0mk)

- (e) D has a smaller atomic size than C // C has larger atomic size than D (1mk)
 D has more protons than C // D has stronger nuclear charge than C (1mk)
 (f) H (½mk). Loses electrons most readily / largest atomic radius / weakest nuclear charge (explanation ½mk)
 (g) $2A_{(s)} + 6HCl_{(aq)} \longrightarrow 2AlCl_{3(aq)} + 3H_{2(g)}$ 1mk
 Moles of A = $\frac{0.081}{27} = 0.003$ moles ½mk
 Mole ratio 1:3
 Moles of HCl = $0.003 \times 3 = 0.009$ moles ½mk
 $\frac{0.009 \times 1000}{20}$ ½mk = 0.45M ½mk
 (h) The melting point increase with increase in atomic number. 1mk

This is due to increase in the strength of van der waal's forces (inter-molecular forces) 1mk

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F Rizvi



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Proceedings of the 15th International Conference on Environmental Degradation of Materials in Nuclear Power Systems - Water Reactors Gabriell Ilevbare, Jeremy Busby, Peter Andersen, 2017-07-17 This 15th Edition of the International Conference on Materials Degradation in Light Water Reactors focuses on subject areas critical to the safe and efficient running of nuclear reactor systems through the exchange and discussion of research results as well as field operating and management experience

41 Years (1978-2018) JEE Advanced (IIT-JEE) + 17 yrs JEE Main Topic-wise Solved Paper Chemistry 14th Edition Dr. O. P. Agarwal, Er. Deepak Agarwal, The book 41 Years IIT JEE Advanced 17 yrs JEE Main AIEEE Topic wise Solved Paper CHEMISTRY is the first integrated book which contains topic wise collection of past JEE Advanced including 1978 2012 IIT JEE 2013 18 JEE Advanced questions from 1978 to 2018 and past JEE Main including 2002 2012 AIEEE 2013 18 JEE Main questions from 2002 to 2018 The book is divided into 23 chapters The flow of chapters has been aligned as per the NCERT books Each chapter divides the questions into 9 categories as per the NEW IIT pattern Fill in the Blanks True False MCQ 1 correct MCQ more than 1 correct Passage Based Assertion Reason Multiple Matching Integer Answer and Subjective Questions All the Screening and Mains papers of IIT JEE have been incorporated in the book Detailed solution of each and every question has been provided for 100% conceptual clarity of the student Well elaborated detailed solutions with user friendly language provided at the end of each chapter Solutions have been given with enough diagrams proper reasoning to bring conceptual clarity The students are advised to attempt questions of a topic immediately after they complete a topic in their class school home The book contains around 3230 MILESTONE PROBLEMS IN Chemistry

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Handbook of Green Chemistry and Technology James H. Clark,Duncan J. Macquarrie,2008-04-15 Sustainable development is now accepted as a necessary goal for achieving societal economic and environmental objectives Within this chemistry has a vital role to play The chemical industry is successful but traditionally success has come at a heavy cost to the environment The challenge for chemists and others is to develop new products processes and services that achieve societal economic and environmental benefits This requires an approach that reduces the materials and energy intensity of chemical processes and products minimises the dispersion of harmful chemicals in the environment maximises the use of renewable resources and extends the durability and recyclability of products in a way that increases industrial competitiveness as well as improve its tarnished image **Index Medicus** ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *Canadian Books in Print. Author and Title Index* ,1975 **The British National Bibliography** Arthur James Wells,2006 **Official Gazette of the United States Patent and Trademark Office** ,2004 **Handbook of Pulp, 2 Volume Set** Herbert Sixta,2006-03-17 In this two volume set Dr Herbert Sixta head of the cellulose and viscose research department at Lenzing AG in Austria has brought together a team of authors to produce the first comprehensive handbook on the market Alongside the traditional aspects of pulping processes pulp used in industry and paper pulps this book describes all pulping processes used for paper and board manufacturing as well as waste liquor treatment pulp bleaching and environmental aspects while also covering pulp properties and applications From the content Chemical Pulp Mechanical Pulp Recovered Paper and Recycled Fibers Analytical Characterization of Pulps This handbook is essential reading for all chemists and engineers in the paper and pulp industry **Handbook of Radioactivity Analysis** Michael F. L'Annunziata,2012-09-01 The updated and much expanded 3e of the Handbook of Radioactivity Analysis is an authoritative reference providing the

principles practical techniques and procedures for the accurate measurement of radioactivity from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards The book describes the basic principles of radiation detection and measurement and the preparation of samples from a wide variety of matrices assists the investigator or technician in the selection and use of appropriate radiation detectors and presents state of the art methods of analysis Fundamentals of radiation properties radionuclide decay the calculations involved and methods of detection provide the basis for a thorough understanding of the analytical procedures The Handbook of Radioactivity Analysis 3e is suitable as a teaching text for university and professional training courses The only comprehensive reference that describes the principles of detection and practical applications of every type of radioactivity detector currently used The new 3e is broader in scope with revised and expanded chapters new authors and seven new chapters on Alpha Spectrometry Radionuclide Standardization Radioactive Aerosol Measurements Environmental Radioactivity Monitoring Marine Radioactivity Analysis Nuclear Forensic Analysis and Analytical Techniques in Nuclear Safeguards Discusses in detail the principles theory and practice applied to all types of radiation detection and measurement making it useful for both teaching and research Atlas of Science Katy Börner, 2010-09-17

Science maps that can help us understand and navigate the immense amount of results generated by today's science and technology Cartographic maps have guided our explorations for centuries allowing us to navigate the world Science maps have the potential to guide our search for knowledge in the same way allowing us to visualize scientific results Science maps help us navigate understand and communicate the dynamic and changing structure of science and technology help us make sense of the avalanche of data generated by scientific research today Atlas of Science featuring more than thirty full page science maps fifty data charts a timeline of science mapping milestones and 500 color images serves as a sumptuous visual index to the evolution of modern science and as an introduction to the science of science charting the trajectory from scientific concept to published results Atlas of Science based on the popular exhibit Places a guide to a PhD thesis that resembles a subway map the structure of science as revealed in a map of citation relationships in papers published in 2002 a visual periodic table a history flow visualization of the Wikipedia article on abortion a globe showing the worldwide distribution of patents a forecast of earthquake risk hands on science maps for kids and many more Each entry includes the story behind the map and biographies of its makers Not even the most brilliant minds can keep up with today's deluge of scientific results Science maps show us the landscape of what we know **Partha's Fundamentals of Pediatrics A**

Parthasarathy, 2013-04-30 The second edition of Partha's Fundamentals of Pediatrics has been thoroughly revised to bring trainees and physicians fully up to date with the latest developments and rapidly changing concepts in the field of paediatrics Beginning with an introduction to physical examination newborn care growth and development and immunisation the

following chapters describe different disciplines within paediatrics including cardiology neurology pulmonology and endocrinology Adolescent health allergies learning disabilities skin diseases and child abuse are also discussed The final sections examine radiology and imaging drug therapy and surgical procedures Enhanced with 560 images illustrations and tables this comprehensive guide helps with recognition diagnosis and management of numerous paediatric disorders with an emphasis on prevention as well as treatment Key points Comprehensive guide to complete field of paediatrics New edition fully revised with latest developments and concepts Emphasis on prevention as well as management of numerous disorders Includes 560 full colour images illustrations and tables Previous edition published in 2008

New Publications of the Geological Survey Geological Survey (U.S.),2003 *Cometary Science after Hale-Bopp* Hermann Böhnhardt,Michael Combi,Mark R. Kidger,Rita Schulz,2003-01-31 Comet Hale Bopp defines a milestone event for cometary science it is the first really big comet observed with modern equipment on the ground and from space and due to that it is considered the new reference object in cometary sciences At the beginning of a new era in spacecraft exploration of comets and five years after Hale Bopp s perihelion passage these proceedings of invited and contributed papers for IAU Colloquium 186 Cometary Science after Hale Bopp review the state of the art knowledge on comets the icy dusty and most primordial left overs of the formation disk of our own solar system

Encyclopedia of Deception Timothy R. Levine,2014-02-20 The Encyclopedia of Deception examines lying from multiple perspectives drawn from the disciplines of social psychology sociology history business political science cultural anthropology moral philosophy theology law family studies evolutionary biology philosophy and more From the little white lie to lying on a resume to the grandiose lies of presidents this two volume reference explores the phenomenon of lying in a multidisciplinary context to elucidate this common aspect of our daily lives Not only a cultural phenomenon historically lying is a frequent occurrence in our everyday lives Research shows that we are likely to lie or intentionally deceive others several times a day or in one out of every four conversations that lasts more than 10 minutes Key Features More than 360 authored by key figures in the field are organized A to Z in two volumes which are available in both print and electronic formats Entries are written in a clear and accessible style that invites readers to explore and reflect on the use of lying and self deception Each article concludes with cross references to related entries and further readings This academic multi author reference work will serve as a general non technical resource for students and researchers within social and behavioral science programs who seek to better understand the historical role of lying and how it is employed in modern society

The Origins of the Modern World Robert B. Marks,2019-07-05 This clearly written and engrossing book presents a global narrative of the origins of the modern world from 1400 to the present Unlike most studies which assume that the rise of the West is the story of the coming of the modern world this history drawing upon new scholarship on Asia Africa and the New World and upon the maturing field of environmental history constructs a story in which those parts of the world play major roles including their impacts on the environment Robert B Marks defines the modern world as one

marked by industry the nation state interstate warfare a large and growing gap between the wealthiest and poorest parts of the world increasing inequality within the wealthiest industrialized countries and an escape from the environmental constraints of the biological old regime He explains its origins by emphasizing contingencies such as the conquest of the New World the broad comparability of the most advanced regions in China India and Europe the reasons why England was able to escape from common ecological constraints facing all of those regions by the end of the eighteenth century a conjuncture of human and natural forces that solidified a gap between the industrialized and non industrialized parts of the world the mounting environmental crisis that defines the modern world and the ways in which the forces of globalization stress the economic and political underpinnings of the modern world Now in a new edition that brings the saga of the modern world to the present in an environmental context the book considers how and why the United States emerged as a world power in the twentieth century and became the sole superpower by the twenty first century and why the changed relationship of humans to the environmental likely will be the hallmark of the modern era the Anthropocene Once again arguing that the US rise to global hegemon was contingent not inevitable Marks also points to the resurgence of Asia and the vastly changed relationship of humans to the environment that may in the long run overshadow any political and economic milestones of the past hundred years A Companion Website at <https://textbooks.rowman.com/marks4e> offers a student study guide that provides a concise summary main points key terms discussion questions map exercises and recommended websites It also offers a range of teaching materials including a test bank and a list of suggested primary and secondary readings

Bilingual Education in China Anwei Feng, 2007 This volume brings a mixed group of researchers together to discuss issues in bilingual or trilingual education for the majority and minority nationality groups in China and to explore the relationship between the two

Encyclopedia of Food and Health, 2015-08-26 Approx 3876 pages Approx 3876 pages

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