

**BISHOP HARTMANN ACADEMY +2  
FIRST TERMINAL EXAMINATION**

**(2020-21)**

**SCIENCE (PAPER -II)  
CHEMISTRY (THEORY-80 MARKS)  
CLASS-IX  
(TWO HOURS)**

Answer to this Paper must be written on the paper provided separately.

You will ~~not~~ be allowed to write during the first 15 minutes.

This time is to be spent in reading the Question Paper.

The time given at the head of this paper is the time allowed for writing the answers.

**Section - I** is compulsory. Attempt **any four** questions from **Section- II**.

The intended marks for questions or parts of questions are given in brackets [ ].

**SECTION- I ( 40 MARKS)**

Attempt **all** questions from this section

**Question-1**

**A.** Fill in the blanks from the choices given in brackets :

[5]

- (i) Sodium chloride has \_\_\_\_\_ (2/3/4) radicals.
- (ii) Formula of Iron (III) carbonate is \_\_\_\_\_ [  $\text{FeCO}_3$  /  $\text{Fe}_2\text{CO}_3$  /  $\text{Fe}_2(\text{CO}_3)_3$  ].
- (iii) In the type of reaction called \_\_\_\_\_ (displacement/decomposition/double decomposition) two compounds exchange their positive and negative radicals.
- (iv)  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$  is commonly known as \_\_\_\_\_ (Epsom salt/Glauber's salt/gypsum).
- (v) Atoms having same mass number but different atomic numbers are known as \_\_\_\_\_ (isotopes/isobars/isotones).

**B.** Choose the correct answer from the options given below:

[5]

- (i) Number of valence electrons in  $\text{O}^{2-}$  is :
  - a) 6
  - b) 8
  - c) 10
  - d) 4

# November 2012 Chemistry Hl Paper 2

**A Loxley**



## November 2012 Chemistry Hl Paper 2:

Advances in Modern and Applied Sciences Sujay Pal, Tushar Kanti Biswas, 2022-11-10 This book *Advances in Modern and Applied Science* materializes our long cherished dream of publishing a series of volumes consisting of review papers on contemporary research fields from a broad spectrum of basic sciences The present volume which is our first baby step towards that fulfilment includes a collection of twenty five review articles contributed by about fifty researchers and scientists whose vocations are in diverse fields of science including astrophysics astronomy high energy physics space science atmospheric sciences computer sciences to material sciences *Production Chemicals for the Oil and Gas Industry* Malcolm A. Kelland, 2014-03-13 This text discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore It reviews all past and present classes of production chemicals providing numerous difficult to obtain references Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance Where known it also details the environmental aspects of the chemicals discussed and their success in the field **Application of Analytical Techniques to Petroleum Systems** P. Dowey, M. Osborne, H. Volk, 2020-11-10 Cutting edge techniques have always been utilized in petroleum exploration and production to reduce costs and improve efficiencies The demand for petroleum in the form of oil and gas is expected to increase for electricity production transport and chemical production largely driven by an increase in energy consumption in the developing world Innovations in analytical methods will continue to play a key role in the industry moving forwards as society shifts towards lower carbon energy systems and more advantaged oil and gas resources are targeted This volume brings together new analytical approaches and describes how they can be applied to the study of petroleum systems The papers within this volume cover a wide range of topics and case studies in the fields of fluid and isotope geochemistry organic geochemistry imaging and sediment provenance The work illustrates how the current state of the art technology can be effectively utilised to address ongoing challenges in petroleum geoscience History of Natto and Its Relatives (1405-2012) William Shurtleff, Akiko Aoyagi, 2012 *Carbon Fibre from Lignin* Pratima Bajpai, 2017-03-20 This book presents detailed information on the production and properties of carbon fibers derived from lignin precursors Focusing on future directions in the carbon fiber industry it also introduces a novel process for obtaining high purity lignin a key aspect in the manufacture of high quality carbon fiber Carbon fiber is currently the most preferred lightweight manufacturing material and is rapidly becoming the material of choice for manufacturers around the world Although more than 80% of commercial carbon fiber is estimated to use PAN polyacrylonitrile as a precursor carbon fiber manufactured from PAN is expensive and therefore its application is limited to high performance structural materials Lignin is the second most abundant biopolymer in nature after cellulose and offers a carbon rich renewable resource As a byproduct of the pulp and paper industry and the production of cellulosic ethanol lignin is also available at low

cost making it an economically attractive alternative to PAN for the production of carbon fibers as highlighted in this book The information presented will be of interest to all those involved in the investigation of carbon fiber materials carbon fiber manufacturers and carbon fiber users      *Supplementary List of Publications of the National Bureau of Standards* ,1960

Publications of the National Bureau of Standards United States. National Bureau of Standards,1960      **Official Gazette of the United States Patent Office** United States. Patent Office,1948      **Matrix Inequalities for Iterative Systems** Hanjo Taubig,2017-02-03 The book reviews inequalities for weighted entry sums of matrix powers Applications range from mathematics and CS to pure sciences It unifies and generalizes several results for products and powers of sesquilinear forms derived from powers of Hermitian positive semidefinite as well as nonnegative matrices It shows that some inequalities are valid only in specific cases How to translate the Hermitian matrix results into results for alternating powers of general rectangular matrices Inequalities that compare the powers of the row and column sums to the row and column sums of the matrix powers are refined for nonnegative matrices Lastly eigenvalue bounds and derive results for iterated kernels are improved      **Processing and Finishing of Polymeric Materials, 2 Volume Set** Wiley,2012-12-03 An authoritative reference on the processing and finishing of polymeric materials for scientists and practitioners Owing to their versatility and wide range of applications polymeric materials are of great commercial importance Manufacturing processes of commercial products are designed to meet the requirements of the final product and are influenced by the physical and chemical properties of the polymeric material used Based on Wiley s renowned Encyclopedia of Polymer Science and Technology Processing and Finishing of Polymeric Materials provides comprehensive up to date details on the latest manufacturing technologies including blending compounding extrusion molding and coating Written by prominent scholars from industry academia and research institutions from around the globe this reference features more than forty selected reprints from the Encyclopedia as well as new contributions providing unparalleled coverage of such topics as Additives Antistatic agents Bleaching Blowing agents Calendaring Casting Coloring processes Dielectric heating Electrospinning Embedding Processing and Finishing of Polymeric Materials is an ideal resource for polymer and materials scientists chemists chemical engineers materials scientists process engineers and consultants and serves as a valuable addition to libraries of chemistry chemical engineering and materials science in industry academia and government      *Hydraulic Fracturing in Unconventional Reservoirs* Hoss Belyadi,Ebrahim Fathi,Fatemeh Belyadi,2019-06-18 Hydraulic Fracturing in Unconventional Reservoirs Theories Operations and Economic Analysis Second Edition presents the latest operations and applications in all facets of fracturing Enhanced to include today s newest technologies such as machine learning and the monitoring of field performance using pressure and rate transient analysis this reference gives engineers the full spectrum of information needed to run unconventional field developments Covering key aspects including fracture clean up expanded material on refracturing and a discussion on economic analysis in unconventional reservoirs this book keeps today s petroleum engineers

updated on the critical aspects of unconventional activity Helps readers understand drilling and production technology and operations in shale gas through real field examples Covers various topics on fractured wells and the exploitation of unconventional hydrocarbons in one complete reference Presents the latest operations and applications in all facets of fracturing      Encyclopedia of Polymer Applications, 3 Volume Set Munmaya Mishra,2018-12-17 Undoubtedly the applications of polymers are rapidly evolving Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day to day challenges leading to improvements in quality of life The Encyclopedia of Polymer Applications presents state of the art research and development on the applications of polymers This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers This comprehensive multi volume reference includes articles contributed from a diverse and global team of renowned researchers It offers a broad based perspective on a multitude of topics in a variety of applications as well as detailed research information figures tables illustrations and references The encyclopedia provides introductions classifications properties selection types technologies shelf life recycling testing and applications for each of the entries where applicable It features critical content for both novices and experts including engineers scientists polymer scientists materials scientists biomedical engineers macromolecular chemists researchers and students as well as interested readers in academia industry and research institutions      *Transform Techniques in Chemistry* P. Griffiths,2012-12-06 The application of the Fourier transform is being seen to an increasing extent in all branches of chemistry but it is in the area of chemical analysis that the greatest activity is taking place Fourier transform infrared and nuclear magnetic resonance spectrometry are already routine methods for obtaining high sensitivity IR and NMR spectra Analogous methods are now being developed for mass spectrometry Fourier transform ion cyclo tron resonance spectrometry and microwave spectroscopy and Fourier transform techniques have been successfully applied in several areas of electrochemistry In addition the fast Fourier transform algorithm has been used for smoothing interpolation and more efficient storage of data and has been studied as a potential method for more efficient identification of samples using pattern recognition techniques Linear transforms have also been shown to be useful in analytical chemistry Probably the most important of these is the Hadamard transform which has been applied in alternative methods for obtaining IR and NMR data at high sensitivity Even though measurements involving this algorithm will probably not be applied as universally as their Fourier transform ana logs in the area of pattern recognition application of the Hadamard trans form will in all probability prove more important than application of the Fourier transform      **Bulletin of the Scientific and Technical Documentation Centre** Markaz al-Qawmī lil-Buḥūth (Egypt). Scientific and Technical Information Centre,1956      Miscellaneous Publication - National Bureau of Standards United States. National Bureau of Standards,1934      *Waste as a Resource* R E Hester,R M Harrison,2013-07-01 The volume of waste produced by human activity continues to grow but steps are being taken to mitigate this problem by viewing waste as a resource Recovering a

proportion of waste for re use immediately reduces the volume of landfill Furthermore the scarcity of some elements such as phosphorous and the rare earth metals increases the need for their recovery from waste streams This volume of Issues in Environmental Science and Technology examines the potential resource available from several waste streams both domestic and industrial Opportunities for exploiting waste are discussed along with their environmental and economic considerations Landfill remains an unavoidable solution in some circumstances and the current situation regarding this is also presented Other chapters focus on mine waste the recovery of fertilisers and the growing potential for compost In keeping with the Issues series this volume is written with a broad audience in mind University students and active researches in the field will appreciate the latest research and discussion while policy makers and members of NGOs will benefit from the wealth of information presented

**Cellulose Nanocrystal/Nanoparticles Hybrid Nanocomposites** Denis Rodrigue, Abou el Kacem Qaiss, Rachid Bouhfid, 2021-08-26 Cellulose Nanocrystal Nanoparticles Hybrid Nanocomposites From Preparation to Applications presents a broad survey of the main innovations in the field of functionalized cellulose at the nanoscale and for hybrid nanoparticles based nanocomposites for industrial application The book covers the properties and applications of cellulose including particle extraction synthesis functionalization of cellulose at the nanoscale and hybrid nanoparticles and their processing and characterizations Readers will find this to be a single and comprehensive reference for future research on polymer based nanocomposites Hybrid nanocomposites based on cellulose at the nanoscale and hybridized with other reinforcement agents represent a key advance in polymer based materials Cellulose is considered the most abundant polymer on the planet and an essential renewable resource There is considerable research interest in the simple extraction and synthesis nanoscale dimensions high aspect ratio mechanical electrical and thermal properties of cellulose at the nanoscale and its hybridized materials Nanocomposites and bio nanocomposites with hybrid reinforcements for example are novel materials with enhanced properties due to the integration of cellulose with other nanoparticles and new methods have been developed to extract cellulose at the nanoscale The extracted cellulose shows potential applications in nanocomposites and functionalization techniques are essential to create enhanced nanocomposites particularly for hybrid nanoparticles Presents the state of the art in functionalized cellulose at the nanoscale along with industrial applications of hybrid nanoparticles based nanocomposites Details the properties and applications of cellulose at the nanoscale and for hybrid nanocomposites Gives updates on hybrid nanoparticles including the processing and characterization of nanocomposites Brings together expertise from chemistry polymer science engineering and manufacturing

*Publications* United States. National Bureau of Standards, 1960

*Assessing the Effects of Emerging Plastics on the Environment and Public Health* Joo, Sung Hee, 2022-06-03 Plastic pollution has been a growing concern globally especially under the COVID 19 pandemic due to the use of personal protective equipment While many engineers and environmental scientists have been addressing global plastic pollution special attention must also be paid to smaller plastics such as micro and nano plastics These smaller plastics pollute

and affect the health of the public environment and marine life Risk assessment of plastics is required to evaluate currently available treatment technologies and identify the significance of plastic pollution Assessing the Effects of Emerging Plastics on the Environment and Public Health assesses the harmful effects of plastics on the environment and public health It evaluates the potential risks of micro and nano plastics and reviews applications of modeling tools and prevention approaches using technologies to minimize plastic pollution through the development of biodegradable plastics or recycling and reusing plastics in environmentally friendly ways Covering topics such as agroecosystems preventive measures and bioplastics this book is an indispensable resource for environmentalists environmental engineers government officials libraries business leaders students and educators of higher education academicians and researchers      Towards the Control of Thermal Expansion: From 1996 to Today Andrea Sanson,Jun Chen,2019-08-08

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