

Seat No.	
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T.Y. B.Sc. (Semester – IV) Examination, 2012
CHEMISTRY (Paper – IV)
CH – 344 : Analytical Chemistry (2008 Pattern) (New)

Time : 2 Hours

Max. Marks : 40

- N.B. :** 1) *All questions are compulsory.*
 2) *Figures to the right indicate full marks.*
 3) *Use of log tables and calculators is allowed.*
 4) *Neat diagrams must be drawn wherever necessary.*

1. Answer the following : 10
 - a) What is polarogram ?
 - b) What is limiting current in polarography ?
 - c) Give equation of operational definition of pH.
 - d) Define 'Migration Velocity' in electrophoresis.
 - e) Define the term 'Retention time' in Gas chromatography.
 - f) Define the term 'Retardation Factor' in gas chromatography.
 - g) Define super critical fluid chromatography.
 - h) Give principle of HPLC.
 - i) State 'Ring Rule' in mass spectrometry.
 - j) Give principle of mass spectrometry.
2. A) Answer **any two** of the following : 6
 - a) Define and explain zone electrophoresis.
 - b) Give a brief account of theoretical plates in gas chromatography.
 - c) Describe construction and working of glass electrode.
- B) Answer **any two** of the following : 4
 - i) Explain the qualitative applications of polarography.
 - ii) Find pH of fruit juice whose hydrogen ion concentration is 4.8×10^{-2} M.
 - iii) The molecular formula of a compound is C_7H_7NO . Calculate the number of unsaturated sites.

P.T.O.

2013 Analytical Chemistry Question Paper

**Robert J. Flanagan, Eva Cuypers, Hans
H. Maurer, Robin Whelpton**



2013 Analytical Chemistry Question Paper:

Quantitative and Qualitative Determination Technologies of Counterfeit Drugs Ronny Priefer, 2023-08-10 Drugs are often counterfeited to reduce manufacture costs while still marketing it as an authentic product Increased incidence of drug counterfeiting is most noticeable in developing countries which may not have the resources to supply counterfeit detection devices on a large scale It is important to consider the problems caused and to propose options for controlling and reducing the prevalence of counterfeit medications Various technologies are needed to identify the chemical properties of a questioned medicinal product which can then be used to determine its authenticity This volume focuses on current technological approaches that are able to detect counterfeited pharmaceuticals Features Focuses on current technological approaches that are able to detect counterfeited pharmaceuticals Assesses the chemical methods of identifying counterfeit medicinal products and explains the theoretical underpinnings of the methods Provides case study type examples of the application for analysis of suspected counterfeit pharmaceuticals Discusses the detection and analysis of counterfeit drugs and appropriate tools for combating this issue The editor draws on his experience as a respected chemist and prolific author in the field to provide this unique text on drug counterfeiting detection Analytical Chemistry Editor's Pick 2024 Serge Cosnier, Huangxian Ju, 2025-02-10 We are pleased to introduce the collection Frontiers in Chemistry Analytical Chemistry Editor's Pick 2024 This collection showcases the most well received spontaneous articles from the past couple of years and have been specially handpicked by our Chief Editors The work presented here highlights the broad diversity of research performed across the section and aims to put a spotlight on the main areas of interest All research presented here displays strong advances in theory experiment and methodology with applications to compelling problems This collection aims to further support Frontiers strong community by recognizing highly deserving authors *15 Years' Solved Papers for AMU Engineering Entrance Exam 2020* Arihant Experts, 2019-11-14 Aligarh Muslim University AMU in the North Indian state of Uttar Pradesh is a result of great endeavour of Sir Syed Ahmed Khan Today it is counted among the prestigious colleges of the country and with more than 1 million books its Maulana Azad library it possesses the Asia's largest University library It takes up its own entrance exams to give admission to its several courses 15 Years 2005 2019 Solved Papers AMU has been revised again to provide an educational assistance to aspirants preparing for AMU engineering entrance exam also known as AMUEEE 2020 This book serves as the performance driven practice tool to conquer all the doubts fears and confusion about questions and concepts related to the exam As the title refers it is incorporated with the last 15 years solved papers of previous years questions from 2005 2019 with authentic analytical and augmented Solutions Based on the latest exam pattern it is the best book to practice and learn to perform well during the exam Table of Content Solved Papers AMU Engineering 2018 2005 Diagnostic Devices with Microfluidics Francesco Piraino, Šeila Selimović, 2017-06-26 This book provides a current view of the research and commercial landscape of diagnostics devices particularly those that utilize

microscale technologies intended for both patient and laboratory use Common diagnostic devices that are based on microfluidic principles include glucose sensors for diabetic patients and over the counter pregnancy tests Other diagnostic devices are being developed to quickly test a patient for bacterial and viral infections and other diseases The chapters written by experts from around the world discuss how to fabricate apply and market microfluidic diagnostic chips for lab and at home use Most importantly the book also contains a discussion of topics relevant to the private sector including patient focused market oriented development of diagnostics devices Chapter 9 of this book is freely available as a downloadable Open Access PDF under a CC BY 3 0 license https://s3-us-west-2.amazonaws.com/tandfbis-rt-files/docs/Open+Access+Chapters/9781498772938_oachapter9.pdf

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Electroanalytical Applications of Quantum Dot-Based Biosensors Bengi Uslu,2021-05-19 Quantum dots QDs are hybrid organic inorganic nanoparticles with novel physical properties QDs have two components an inorganic core and an optically active coated shell Moreover surface coatings can be applied to QDs to modify the particle as needed for experiments Hydrophilic coatings prevent leaking of metal cargo from the core enhancing the solubility in biological contexts and bind molecules such as receptor ligands antibodies therapeutic and diagnostic macromolecules for enhanced effects Their high surface to volume ratio allows multiple functional groups to attach onto the surface of the particles at constant surface volume Silicon gallium indium or germanium based cadmium based and carbon based QDs have already been used in many applications such as imaging probes for the engineering of multifunctional nanodevices Superior properties of QDs make them an excellent system in technology and biotechnology This book describes electroanalytical applications of QD based nanobiosensors including brief information about the synthesis and characterization of QDs and basics of electroanalytical methods followed by QDs in electrochemical biomimetic sensors QDs in microchips inorganic materials doped QDs QD based electrochemical DNA biosensors electroluminescence for biomarker analysis using aptamer based QDs QD based photoelectrochemical techniques enzyme based nanobiosensors using QDs QD based electrochemical immunosensors and QD modified nanosensors in drug

analysis Outlines QD based applications for drug food clinical and environmental science Shows how the properties of QDs make them effective ingredients in biosensing applications Assesses the major challenges in integrating QDs in biosensing systems

Who is Who in Thermal Analysis and Calorimetry Imre Miklós Szilágyi, György Liptay, 2014-11-18 This is an expanded and revised second edition presenting accurate and comprehensive information about our leading thermal scientists to current and future generations In our globalized world most researchers in thermal analysis do not know each other in person and are not familiar with each other's achievements This volume provides the reader with an up to date list of the prominent members in this community The publication contains only living scientists The selection is based partly on several decades of the editors personal professional experience and also partly on the opinion of the Regional Editors of the Journal of Thermal Analysis and Calorimetry

Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis Rajeev Jain, Abuzar Kabir, 2024-10-26 Green Analytical Methods and Miniaturized Sample Preparation techniques for Forensic Drug Analysis provides a comprehensive overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation The book discusses not only eco friendly GAMs but also methods which provide high sample throughput and cost effective analysis and are therefore of immense use in resource limited laboratories of developing countries This is a comprehensive source of literature for analytical scientists in this developing area of sustainable and affordable analytical methods Provides a comprehensive overview of GAMs in forensic drug analysis including green sample preparation techniques in situ analytical platforms such as DIC and PADs and on site sample preparation Presents scientific data for synthesis and application of green solvents e g DES and ILs and adsorbents e g FPSE membranes Offers method development optimization and validation strategies for GAMs

Peterson's Grad Programs in Physical Sciences, Math, Ag Sciences, Envir & Natural Res 20154 (Grad 4) Peterson's, 2014-10-21 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2015 contains more than 3 000 graduate programs in the relevant disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more Informative data profiles for more than 3 000 graduate programs at nearly 600 institutions are included complete with facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series

Document Analysis and Recognition - ICDAR 2023 Gernot A. Fink, Rajiv Jain, Koichi Kise, Richard Zanibbi, 2023-08-18 This six volume set of LNCS 14187 14188 14189 14190 14191 and 14192 constitutes the refereed proceedings of the 17th International Conference on Document Analysis and Recognition ICDAR 2021 held in San

Jos CA USA in August 2023 The 53 full papers were carefully reviewed and selected from 316 submissions and are presented with 101 poster presentations The papers are organized into the following topical sections Graphics Recognition Frontiers in Handwriting Recognition Document Analysis and Recognition *Fundamentals of Analytical Toxicology* Robert J. Flanagan, Eva Cuypers, Hans H. Maurer, Robin Whelpton, 2020-08-03 *Fundamentals of Analytical Toxicology* is an integrated introduction to the analysis of drugs poisons and other foreign compounds in biological and related specimens Assuming only basic knowledge of analytical chemistry this invaluable guide helps trainee analytical toxicologists understand the principles and practical skills involved in detecting identifying and measuring a broad range of compounds in various biological samples Clear easy to read chapters provide detailed information on topics including sample collection and preparation spectrophotometric and luminescence techniques liquid and gas liquid chromatography and mass spectrometry including hyphenated techniques This new edition contains thoroughly revised content that reflects contemporary practices and advances in analytical methods Expanding the scope of the 1995 World Health Organization WHO basic analytical toxicology manual the text includes coverage of separation science essential pharmacokinetics xenobiotic absorption distribution and metabolism clinical toxicological and substance misuse testing therapeutic drug monitoring trace elements and toxic metals analysis and importantly the clinical interpretation of analytical results Written by a prominent team of experienced practitioners this volume Focuses on analytical statistical and pharmacokinetic principles Describes basic methodology including colour tests and immunoassay and enzyme based assays Outlines laboratory operations such as method validation quality assessment staff training and laboratory accreditation Follows IUPAC nomenclature for chemical names and recommended International Non proprietary Name rINN for drugs and pesticides Includes discussion of designer drugs novel pharmaceutical substances NPS *Fundamentals of Analytical Toxicology Clinical and Forensic 2nd Edition* is an indispensable resource for advanced students and trainee analytical toxicologists across disciplines such as clinical science analytical chemistry forensic science pathology applied biology food safety and pharmaceutical and pesticide development

Technical questions and answers for job interview Offshore Drilling Platforms PETROGAV INTERNATIONAL, This book offers you a brief but very involved look into the operations in the drilling of an oil gas wells that will help you to be prepared for job interview at oil gas companies From start to finish you ll see a general prognosis of the drilling process If you are new to the oil gas industry you ll enjoy having a leg up with the knowledge of these processes If you are a seasoned oil gas person you ll enjoy reading what you may or may not know in these pages This course provides a non technical overview of the phases operations and terminology used on offshore drilling platforms It is intended also for non drilling personnel who work in the offshore drilling exploration and production industry This includes marine and logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of

drilling operations with a particular focus on the unique aspects of offshore operations Questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 288 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Technical questions and answers for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry 273 technical questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-06-29 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS web addresses to 218 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *Seeking Molecular Biomarkers for Schizophrenia Using ROC Analysis* Margareth Borges Coutinho Gallo,2024-05-30 Schizophrenia Spectrum Disorders SSD manifest multidimensionally presenting a syndromic nature with several symptomatic domains These are driven by dynamic systemic biological changes that unfold over the course of the disease Thus far the diagnosis is solely based on symptoms which may be rather subjective moving research toward the search for SSD biomarkers This book presents a summary of the main hypotheses that have evolved over time to explain the pathophysiology of SSD and that have driven the discovery of associated biomarkers neurotrophic neurotransmitter neuroendocrine immune inflammatory

nitrosative oxidative stress metabolic and gut microbiota brain axis The book shows the most relevant research carried out in the last twelve years to develop predictive diagnostic theranostic or transdiagnostic models based on these biomarkers using the receiver operating characteristic curve ROC analysis Chapters also discuss how the literature has addressed the development and or addition of new discriminatory biomarkers to achieve robust and successful results The book is rounded out with a step by step explanation on how to work on the MetaboAnalyst platform including the meaning of the chosen statistics and how to interpret them in the results obtained This book is a useful resource for students and scientists involved in the discovery of biomarkers for psychiatric disorders and other diseases Advances in Chromatography, Volume 51 Eli

Grushka,Nelu Grinberg,2016-04-19 For more than four decades scientists and researchers have relied on the Advances in Chromatography series for the most up to date information on a wide range of developments in chromatographic methods and applications For Volume 51 the series editors have invited established well known chemists from across the globe to offer cutting edge review *Enhancing Science Education* Margaret A.L. Blackie,Hanelie Adendorff,Marnel

Mouton,2022-08-15 This book helps meet an urgent need for theorized accessible and discipline sensitive publications to assist science technology engineering and mathematics educators The book introduces Legitimation Code Theory LCT and demonstrates how it can be used to improve teaching and learning in tertiary courses across the sciences LCT provides a suite of tools which science educators can employ in order to help their students grasp difficult and dense concepts The chapters cover a broad range of subjects including biology physics chemistry and mathematics as well as different curriculum pedagogy and assessment practices This is a crucial resource for any science educator who wants to better understand and improve their teaching **Applications of Microfluidic Systems in Biology and Medicine** Manabu

Tokeshi,2024-10-02 This book is the second edition of the one originally published in 2016 which focused on state of the art microfluidic research in medical and biological applications Similar to the first edition beginners in the field undergraduates engineers biologists medical and pharmaceutical researchers will easily learn to understand microfluidic based medical and biological applications Because a wide range of topics is summarized here it also helps experts to learn more about fields outside their own specialties In this second edition significant revisions have been made to chapters covering technologies that have seen major advancements such as acoustofluidics protein crystallography organ on a chip systems nanopore sensing and paper based microfluidics In addition the chapters on cancer diagnosis using exosomes and single cell sequencing using droplet microfluidics which are attracting attention as new technologies have been newly added Readers will be convinced that microfluidic devices have great potential for medical and biological applications

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hey jude was the first beatles song to be recorded on eight track recording equipment the sessions took place at trident

studios in central london midway through the recording of the group s self titled double album also known as the white album and led to an argument between mccartney and george harrison over the song s guitar part

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the beatles hey jude arranged string trio of violin viola and cello my arrangement differs to some of the other trio arrangements you may find both on this site and elsewhere i have not simply transcribed it from a piano arrangement i e given the tune to the 1st violin and given broken chords or sustaining notes to the other two

the beatles rare notebook featuring handwritten hey jude - Nov 12 2022

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hey jude is a song by the english rock band the beatles that was released as a non album single in august 1968 it was written by paul mccartney and credited to the lennon mccartney partnership

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on this day the beatles continued working on hey jude which was rehearsed the day before they recorded seventeen takes numbered takes 7 23 at the end of the session two tape reductions were created and a rough stereo mix was made so that george martin could work on the song s orchestral score which would be

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after two days of rehearsals and rough takes spent on hey jude the beatles moved from abbey road to trident studios to benefit from the eight track recording facilities and record the song in a proper way from the beatles monthly book september 1968 n 62 then on the wednesday we moved from emi to trident which

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after two days of rehearsals and rough takes at abbey road and a day of proper recording at trident studios on this day the beatles completed the recording of hey jude still at trident studios to benefit from its eight track recording facilities from 5 pm to 8 pm the beatles added overdubs onto take 1

hey jude song facts recording info and more the beatles bible - Sep 22 2023

mar 15 2008 on 26 july 1968 played the song to lennon for the first time it wasn t until 1987 that mccartney came to discuss hey jude with julian lennon after a chance encounter in a new york hotel the recording notes for hey jude were bought at auction by julian lennon in 1996 for 25 000

the beatles rare hand written hey jude lyrics to go on display - Jun 07 2022

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behind the song hey jude by john lennon and paul mccartney - Apr 05 2022

nov 2 2021 the beatles ballad was originally titled hey jules to more directly address julian but mccartney later changed the song to hey jude to fit the sonic direction

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there was no session on friday july 26 as paul mccartney and john lennon finished writing hey jude as reported by the beatles

monthly book september 1968 n 62 on friday july 26 john and paul spent most of the day at paul s house putting the final touches to their latest composition hey jude

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day tripper eight days a week a hard day s night help hey jude let it be love me do nowhere man penny lane something ticket to ride yesterday and more the lyrics 1956 to the present vol two volume set alfred music string duet

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web sep 15 2020 a yankee at the court of king arthur by mark twain 3 77 13 ratings 54 want to read 3 currently reading 25 have read a blow on the head transports a yankee to 528 a d where he proceeds to modernize king arthur s kingdom by organizing a school system constructing telephone lines and inventing the printing

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