

Seat
No.

T.Y. B.Sc. (Semester – IV) Examination, 2012
CHEMISTRY (Paper – IV)
CH – 344 : Analytical Chemistry
(New) (2008 Pattern)

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

- 1) What is decomposition potential in polarography ?
- 2) Give Ilkovi equation.
- 3) What is alkaline error in pH metry ?
- 4) Give the principle of electrophoresis.
- 5) What is difference between GLC and GSC ?
- 6) What is stationary and mobile phase in thin layer chromatography ?
- 7) How the resolving power of HPLC is increased ?
- 8) What do you understand by HPLC ?
- 9) Give significance of parent peak obtained in mass spectroscopy.
- 10) Define the term molecular ion in mass spectrometry.

2. A) Answer **any two** of the following :

6

- 1) Write a note on moving boundary electrophoresis.
- 2) Discuss flame ionisation detectors in gas chromatography.
- 3) Describe construction and working of calomel electrode.

P.T.O.

2013 Analytical Chemistry Question Paper

**Estelle K. Meislich, Herbert
Meislich, Jacob Sharefkin**



2013 Analytical Chemistry Question Paper:

Comprehensive Biotechnology, 2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field. The book covers scientific fundamentals along with engineering considerations and applications in industry, agriculture, medicine, the environment, and socio-economics, including the related government regulatory overviews. This new edition builds on the solid basis provided by previous editions, incorporating all recent advances in the field since the second edition was published in 2011. Offers researchers a one-stop shop for information on the subject of biotechnology. Provides in-depth treatment of relevant topics from recognized authorities, including the contributions of a Nobel laureate. Presents the perspective of researchers in different fields such as biochemistry, agriculture, engineering, biomedicine, and environmental science.

McGraw-Hill's 500 Organic Chemistry Questions: Ace Your College Exams, Estelle K. Meislich, Herbert Meislich, Jacob Sharefkin, 2012-12-21. 500 Ways to Achieve Your Best Grades. We want you to succeed on your organic chemistry midterm and final exams. That's why we've selected these 500 questions to help you study more effectively, use your preparation time wisely, and get your best grades. These questions and answers are similar to the ones you'll find on a typical college exam, so you will know what to expect on test day. Each question includes explanations for right and wrong answers for your full understanding of the concepts. Whether you have been studying all year or are doing a last-minute review, McGraw-Hill's 500 Organic Chemistry Questions will help you achieve the final grade you desire. Sharpen your subject knowledge and build your test-taking confidence with 500 essential organic chemistry questions. Complete answer explanations. Coverage of organic chemistry from reactivity to proteins.

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

Lab-on-a-Chip Devices and Micro-Total Analysis Systems Jaime Castillo-León, Winnie E. Svendsen, 2014-11-05 This book covers all the steps in order to fabricate a lab on a chip device starting from the idea the design simulation fabrication and final evaluation Additionally it includes basic theory on microfluidics essential to understand how fluids behave at such reduced scale Examples of successful histories of lab on a chip systems that made an impact in fields like biomedicine and life sciences are also provided This book also Provides readers with a unique approach and toolset for lab on a chip development in terms of materials fabrication techniques and components Discusses novel materials and techniques such as paper based devices and synthesis of chemical compounds on chip Covers the four key aspects of development basic theory design fabrication and testing Provides readers with a comprehensive list of the most important journals blogs forums and conferences where microfluidics and lab on a chip news methods techniques and challenges are presented and discussed as well as a list of companies providing design and simulation support components and or developing lab on a chip and microfluidic devices

Advanced Microfluidics Based Point-of-Care Diagnostics Raju Khan, Chetna Dhand, Sunil Kumar Sanghi, D. Shabi Thankaraj Salammal, Ashtbhuja Prasad Mishra, 2022-03-10 This book provides a well focused and comprehensive overview of novel technologies involved in advanced microfluidics based diagnosis via various types of prognostic and diagnostic biomarkers This authors examine microfluidics based diagnosis in the biomedical field as an upcoming field with extensive applications It provides a unique approach and comprehensive technology overview for diagnosis management towards early stages of various bioanalytes via cancer diagnostics diabetes alzheimer disease toxicity in food products brain and retinal diseases cardiovascular diseases and bacterial infections etc Thus this book would encompass a combinatorial approach of medical science engineering and biomedical technology The authors provide a well focused and comprehensive overview of novel technologies involved in advanced microfluidics based diagnosis via various types of prognostic and diagnostic biomarkers Moreover this book contains detailed description on the diagnosis of novel techniques This book would serve as a guide for students scientists researchers and microfluidics based point of care technologies via smart diagnostics and to plan future research in this valuable field

Carbon Nanomaterials-Based Sensors Jamballi G. Manjunatha, Chaudhery Mustansar Hussain, 2022-04-28 Carbon Nanomaterials Based Sensors Emerging Research Trends in Devices and Applications covers the most recent research and design trends for carbon nanomaterials based sensors for a variety of applications including clinical and environmental uses and more Carbon nanomaterials based sensors can be used with high sensitivity stability and accuracy compared to other techniques Written by experts in their given fields from around the world this book helps researchers solve the particular challenges they face when developing new types of sensors It instructs how to make

sensitive selective robust fast response and stable carbon nanomaterial based sensors as well as how to utilize them in real life Covers the environmental monitoring and analytical implications of electro analytical methods one of the most dynamically developing branches of carbon nanomaterials Includes a complete discussion of functionalized nanostructure materials reformulated with noble materials and advanced characteristics for improved applications when compared to standard materials Covers sustainability and challenges in the commercialization of carbon nanomaterials based sensors

Handbook of Sustainable Polymers for Additive Manufacturing Antonio Paesano,2022-05-24 This book provides the latest technical information on sustainable materials that are feedstocks for additive manufacturing AM Topics covered include an up to date and extensive overview of raw materials their chemistry and functional properties of their commercial versions a description of the relevant AM processes products applications advantages and limitations prices and market data and a forecast of sustainable materials used in AM their properties and applications in the near future Data included are relative to current commercial products and are presented in easy to read tables and charts Features Highlights up to date information and data of actual commercial materials Offers a broad survey of state of the art information Forecasts future materials applications and areas of R D Contains simple language explains technical terms and minimizes technical lingo Includes over 200 tables nearly 200 figures and more than 1 700 references to technical publications mostly very recent Handbook of Sustainable Polymers for Additive Manufacturing appeals to a diverse audience of students and academic technical and business professionals in the fields of materials science and mechanical chemical and manufacturing engineering

Open Microfluidics Jean Berthier,Kenneth A. Brakke,Erwin Berthier,2016-07-20 Open microfluidics or open surface is becoming fundamental in scientific domains such as biotechnology biology and space First such systems and devices based on open microfluidics make use of capillary forces to move fluids without any need for external energy Second the openness of the flow facilitates the accessibility to the liquid in biotechnology and biology and reduces the weight in space applications This book has been conceived to give the reader the fundamental basis of open microfluidics It covers successively The theory of spontaneous capillary flow with the general conditions for spontaneous capillary flow and the dynamic aspects of such flows The formation of capillary filaments which are associated to small contact angles and sharp grooves The study of capillary flow in open rectangular pseudo rectangular and trapezoidal open microchannels The dynamics of open capillary flows in grooves with a focus on capillary resistors The case of very viscous liquids is analyzed An analysis of suspended capillary flows such flows move in suspended channels devoid of top cover and bottom plate Their accessibility is reinforced and such systems are becoming fundamental in biology An analysis of rails microfluidics which are flows that move in channels devoid of side walls This geometry has the advantage to be compatible with capillary networks which are now of great interest in biotechnology for molecular detection for example Paper based microfluidics where liquids wick flat paper matrix Applications concern bioassays such as point of care devices POC Thread based microfluidics is a new

domain of investigation It is seeing presently many new developments in the domain of separation and filtration and opens the way to smart bandages and tissue engineering The book is intended to cover the theoretical aspects of open microfluidics experimental approaches and examples of application

Comprehensive Analytical Chemistry Cecil Leeburn
 Wilson, David Woodburn Wilson, 1959

Digest of Technical Papers, 2001 Conference held in alternate years with other conferences on solid state sensors

Yearbook of International Organizations 2013-2014 (Volumes 1A-1B) Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

Sessional Papers Great Britain. Parliament. House of Commons, 1906

Analytical Chemistry in Halal & Toyyib Identification Farah Wahida Harun, 2019 Chromatographic analysis and product ingredient halal in Malaysia

Ion-Selective Electrodes in Analytical Chemistry Henry Freiser, 1978 We continue in this second volume the plan evident in the first i e of presenting a number of well rounded up to date reviews of important developments in the exciting field of ion selective electrodes in analytical chemistry In this volume in addition to the exciting applications of ISE S to biochemistry systems represented by the description of enzyme electrodes there is featured the most recent development in ISE S namely the joining of the electrochemical and solid state expertise resulting in CHEMFETS The scholarly survey of the current status of ISE S will undoubtedly be welcomed by all workers in the field Tucson Arizona Henry Freiser vii

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Journal of Analytical Chemistry of the USSR., 1991

Industrial and Engineering Chemistry, 1925

Industrial & Engineering Chemistry, 1923

Organic chemistry for the laboratory William Albert Noyes, 1916

Chemical Abstracts, 1926

Annual Index/abstracts of SAE Technical Papers, 2006

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