

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

**Jean Berthier, Kenneth A. Brakke, Erwin
Berthier**

2013 Analytical Chemistry Question Paper:

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.

Enzymes as Sensors, 2017-03-21. Enzymes as Sensors Volume 589, the latest release in the Methods in Enzymology series, covers a variety of topics including advances in genetically coded fluorescent sensors, enzymes as sensors, and bioapplications of electrochemical sensors and biosensors. Users will find a comprehensive discussion of timely topics that presents a micro level delivery of specific content related to the study of enzymes in sensors. New to this edition are highly specialized chapters on integrated strategies for gaining a systems level view of dynamic signaling networks, sensitive protein detection and quantification in paper based microfluidics for point of care and microneedle enzyme sensor arrays for continuous in vivo monitoring. This state of the art series is ideal for those interested in the latest information on enzymology with this edition focusing on sensors and their role in enzymes. Contains contributions from leading authorities. Informs and updates on all the latest developments in the 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.

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

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

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