

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

Zhe Xu



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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. *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. *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 author examines 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 Contain 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 *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 **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **Digest of Technical Papers** ,2001 Conference held in alternate years with other conferences on solid state sensors *Industrial & Engineering Chemistry* ,1923 *Industrial and Engineering Chemistry* ,1925 *Electroanalytical Abstracts* ,1977 International journal dealing with the documentation of all aspects of fundamental physico chemical and analytical electrochemistry *Geographical Abstracts* ,1981 **Chimie Pure Et Appliquée** ,2012 *Mechatronics Engineering, Computing and Information Technology* X.D. Xu,Bin Li,Q.M. Lu,X.Y. Yan,J.L. Li,2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014 April 9 10 2014 Shanghai

China *Geographical Abstracts Index* ,1979 Biodegradable Plastics & Marine Litter Peter John Kershaw,2015 This briefing paper provides a concise summary of some of the key issues surrounding the biodegradability of plastics in the oceans It explores whether the adoption of biodegradable plastics will reduce the impact of marine plastics overall The paper also addresses the lack of public knowledge about biodegradable plastics Moreover it the raises concern over the labeling of products as biodegradable as it may result in more littering behaviors due to a perceived technical fix that removes responsibility from individuals Publisher s description *Indian National Bibliography* B. S. Kesavan,2016-05 **Analytical Catalogue of the Professional Library of the United States Artillery School at Fort Monroe, Va** Coast Artillery School (U.S.). Library,1886 *The Journal of Industrial and Engineering Chemistry* ,1917

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