

Scheme – I

Sample Question Paper

Program Name : Computer Engineering Program Group
Program Code : CO/CM/IF/CW
Semester : Second
Course Title : Applied Mathematics
Max. Marks : 70

22224

Time: 3 Hrs.

Instructions:

1. All Questions are Compulsory.
2. Answer each next main Question on a new page.
3. Illustrate your answers with neat sketches wherever necessary.
4. Non Programmable pocket calculator is allowed.
5. Programmable pocket calculator is not allowed.
6. Figures to the right indicate full marks.
7. Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Q.1 Attempt any FIVE of the following

10 Marks

- a) Define Even and Odd Functions.
- b) If $f(x) = x^3 - 3x^2 + 5$, find $f(0) + f(3)$.
- c) Find $\frac{dy}{dx}$ if $y = (x + 1) \cdot \log(x + 1)$
- d) Evaluate: $\int (e^x + x^e + e^e) dx$
- e) Evaluate : $\int \frac{dx}{2x + 1}$
- f) Find the area bounded by the curve $y = x$, X-axis & the ordinates $x = 0$, $x = 4$.
- g) Find a real root of the equation $x^3 - 4x - 9 = 0$ in the interval (2 , 3) by using bisection method (Use two iterations).

Q.2 Attempt any THREE of the following

12 Marks

- a) Find $\frac{dy}{dx}$ if $x^2 + y^2 - xy - 2x + 5y - 6 = 0$ at (1, 2)

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Semester II (NEP-UP) Madan R.L., This textbook has been designed to meet the needs of B Sc Second Semester students of Chemistry as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 Maintaining the traditional approach to the subject this textbook comprehensively covers two papers namely Bioorganic and Medicinal Chemistry and Biochemical Analysis Important theoretical topics such as chemistry of carbohydrates proteins nucleic acids laws of crystallography introduction classification of monomers oligomers polymers are aptly discussed to give an overview of Bioorganic and Medicinal Chemistry Practical part covering Biochemical Analysis has been presented systematically to help students achieve solid conceptual understanding and learn experimental procedures **Emerging Technologies for Education** Tien-Chi

Huang, Rynson Lau, Yueh-Min Huang, Marc Spaniol, Chun-Hung Yuen, 2017-12-15 This book constitutes the thoroughly refereed post workshop proceedings of the Second International Symposium SETE 2017 held in conjunction with ICWL 2017 Cape Town South Africa in September 2017 The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area **Comprehensive Inorganic Chemistry II**

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field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973 **Corrosion in Marine and Saltwater**

Environments II D. A. Shifler, 2005 **Physics Briefs**, 1994 **Applied Spectroscopy**, 1962 **Chemical Pedagogy** Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities Chemical Pedagogy discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience **Resources in Education**, 1998-04 **Applied Mechanics Reviews**, 1982

WASTES - Solutions, Treatments and Opportunities II Candida Vilarinho, Fernando Castro, Maria de Lurdes Lopes, 2017-09-01 Wastes Solutions Treatments and Opportunities II contains selected papers presented at the 4th edition of the International Conference Wastes Solutions Treatments and Opportunities that took place 25 26 September 2017 at the Faculty of Engineering of the University of Porto Porto Portugal The Wastes conference which takes place biennially is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance The published papers focus on a wide range of topics including Wastes as construction materials Wastes as fuels Waste treatment technologies MSW management Recycling of

wastes and materials recovery Wastes from new materials nanomaterials electronics composites etc Environmental economic and social aspects in waste management and Circular economy Carthage College Catalog Carthage College (Kenosha, Wis.),1923 **Announcement** Carthage College (Carthage, Ill.),1924 Cognitive, Affective, Behavioral and Multidimensional Domain Research in STEM Education: Active Approaches and Methods towards Sustainable Development Goals (SDGs) Jin Su Jeong,David Gonzalez-Gomez,Jianpeng Guo,James Robbe Kraly,2022-04-25 **Energy Research Abstracts** ,1990 **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1977 **Research in Education** ,1974 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),National Institute of Standards and Technology (U.S.). Information Resources and Services Division,1994 **Passivity and Localized Corrosion** Masahiro Seo,Electrochemical Society. Corrosion Division,1999

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