



## Tech. Degree I & II Semester (Combined) Examination, June 2008

IT/CS/EC/CE/ME/SE/EB/EI/EE/FT 103 ENGINEERING CHEMISTRY  
(2006 Scheme)

3 Hours

Maximum Marks: 100

### PART A (Answer all questions)

(8 x 5 = 40)

- |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| I | <input checked="" type="checkbox"/> a) Explain Born-Haber cycle with example.<br><input type="checkbox"/> b) Explain in brief what is BET isotherm.<br><input type="checkbox"/> c) What is photovoltaic effect? Give details of solar cells.<br><input type="checkbox"/> d) Explain the significance of Arrhenius equation.<br><input type="checkbox"/> e) What is Trouton's rule? Explain.<br><input checked="" type="checkbox"/> f) What is meant by chemical potential? Give its importance in chemical reactions.<br><input checked="" type="checkbox"/> g) Write notes on optical fibres.<br><input type="checkbox"/> h) Write notes on nanoceramics. |  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

### PART B

(15 x 4 = 60)

- |        |                                                                                                                                                                                                                                                                                      |                   |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| II ✓   | <input type="checkbox"/> a) Explain in details Point Defects.<br><input type="checkbox"/> b) Explain Band theory of solids.                                                                                                                                                          | (10)<br>(5)       |
| OR     |                                                                                                                                                                                                                                                                                      |                   |
| III ✓  | <input type="checkbox"/> a) Explain the different types of liquid crystals.<br><input type="checkbox"/> b) Write notes on Super Conductors.                                                                                                                                          | (10)<br>(5)       |
| IV     | <input type="checkbox"/> a) Explain the Poggendorff compensation method for determination of emf.<br><input type="checkbox"/> b) What is Buffer solution? Explain its action with examples.<br><input type="checkbox"/> c) Explain Cathodic protection method in metallic corrosion. | (6)<br>(4)<br>(5) |
| OR     |                                                                                                                                                                                                                                                                                      |                   |
| V ✓    | <input checked="" type="checkbox"/> a) Give the important factors controlling corrosion.<br><input type="checkbox"/> b) What is a sec-cell? Explain the working of lead-acid storage cell.                                                                                           | (8)<br>(7)        |
| VI ✓   | <input checked="" type="checkbox"/> a) Derive the Kirchhoff's equation.<br><input type="checkbox"/> b) Explain Nernst heat theorem.<br><input type="checkbox"/> c) Thermodynamics of Biochemical reactions.                                                                          | (6)<br>(4)<br>(5) |
| OR     |                                                                                                                                                                                                                                                                                      |                   |
| VII ✓  | <input type="checkbox"/> a) Derive the Gibbs-Helmholtz equation.<br><input type="checkbox"/> b) State the three different rules of thermodynamics.<br><input type="checkbox"/> c) Show and explain the relation between temperature, pressure and free energy.                       | (5)<br>(6)<br>(4) |
| VIII ✓ | <input type="checkbox"/> a) What is polymer processing? Explain in details the different methods.<br><input type="checkbox"/> b) Explain the mechanism of lubrication.                                                                                                               | (10)<br>(5)       |
| OR     |                                                                                                                                                                                                                                                                                      |                   |
| IX     | <input type="checkbox"/> a) Write down in detail the preparation, properties and application of any three industrial polymers.<br><input checked="" type="checkbox"/> b) What are the different types of lubricants? Give the details.                                               | (10)<br>(5)       |

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# May 2013 S1 Qustion Paper

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### May 2013 S1 Question Paper:

The Chinese Constitution of Central Asia N. Godehardt, 2014-03-21 China's commitments in Central Asia illustrate how regional foreign policy works and how long standing principles of Chinese foreign policy might be revised in the near future China's rise has moved Asia which is why it seems that what we have traditionally regarded as the geographic and political scope of Asia might actually considerably change in the near future Nadine Godehardt gives crucial insights into the Chinese expert discourse on Central Asia analyzing how Chinese experts define Central Asia when they talk and write about policy issues related to China's immediate Western neighbourhood In this context she gives an inside perspective on Chinese voices whose meanings are rarely examined in Chinese International Relations studies **The Gift of Global Talent** William R.

Kerr, 2018-10-02 The global race for talent is on with countries and businesses competing for the best and brightest Talented individuals migrate much more frequently than the general population and the United States has received exceptional inflows of human capital This foreign talent has transformed U S science and engineering reshaped the economy and influenced society at large But America is bogged down in thorny debates on immigration policy and the world around the United States is rapidly catching up especially China and India The future is quite uncertain and the global talent puzzle deserves close examination To do this William R Kerr uniquely combines insights and lessons from business practice government policy and individual decision making Examining popular ideas that have taken hold and synthesizing rigorous research across fields such as entrepreneurship and innovation regional advantage and economic policy Kerr gives voice to data and ideas that should drive the next wave of policy and business practice The Gift of Global Talent deftly transports readers from joyous celebrations at the Nobel Prize ceremony to angry airport protests against the Trump administration's travel ban It explores why talented migration drives the knowledge economy describes how universities and firms govern skilled admissions explains the controversies of the H 1B visa used by firms like Google and Apple and discusses the economic inequalities and superstar firms that global talent flows produce The United States has been the steward of a global gift and this book explains the huge leadership decision it now faces and how it can become even more competitive for attracting tomorrow's talent Please visit [www.hbs.edu/managing\\_the\\_future\\_of\\_work/research/Pages/default.aspx](http://www.hbs.edu/managing_the_future_of_work/research/Pages/default.aspx) to learn more about the book

*The SAGE Handbook of Online Research Methods* Nigel G Fielding, Raymond M Lee, Grant Blank, 2016-09-30 Online research methods are popular dynamic and fast changing Following on from the great success of the first edition published in 2008 The SAGE Handbook of Online Research Methods Second Edition offers both updates of existing subject areas and new chapters covering more recent developments such as social media big data data visualization and CAQDAS Bringing together the leading names in both qualitative and quantitative online research this new edition is organised into nine sections 1 Online Research Methods 2 Designing Online Research 3 Online Data Capture and Data Collection 4 The Online Survey 5 Digital Quantitative Analysis 6 Digital Text Analysis 7 Virtual Ethnography 8 Online Secondary Analysis Resources and

Methods 9 The Future of Online Social Research The SAGE Handbook of Online Research Methods Second Edition is an essential resource for anyone interested in the contemporary practice of computer mediated research and scholarship

**LLB Bachelor of Laws 12 Solved Papers (2021-2010) For 2022 Exams** Arihant Experts,2022-03-05 *Numbers in India's Periphery: Political Economy of Government Statistics* Ankush Agrawal,Vikas Kumar,2020-10-29 An exciting account of how government statistics in developing countries are social artefacts dynamically shaped by political and economic contexts **29 AIIMS Physics Chapter-wise Solved Papers (1997-2019) with Revision Tips & 3 Mock Online Tests - 2nd Edition** Disha Experts,2019-07-19 **English for Writing Research Papers** Adrian Wallwork,2016-03-02 Publishing your research in an international journal is key to your success in academia This guide is based on a study of over 1000 manuscripts and reviewers reports revealing why papers written by non native researchers are often rejected due to problems with English usage and poor structure and content With easy to follow rules and tips and examples taken from published and unpublished papers you will learn how to prepare and structure a manuscript increase readability and reduce the number of mistakes you make in English by writing concisely with no redundancy and no ambiguity write a title and an abstract that will attract attention and be read decide what to include in the various parts of the paper Introduction Methodology Discussion etc highlight your claims and contribution avoid plagiarism discuss the limitations of your research choose the correct tenses and style satisfy the requirements of editors and reviewers This new edition contains over 40% new material including two new chapters stimulating factoids and discussion points both for self study and in class use EAP teachers will find this book to be a great source of tips for training students and for preparing both instructive and entertaining lessons Other books in the series cover presentations at international conferences academic correspondence English grammar usage and style interacting on campus plus exercise books and a teacher s guide to the whole series Please visit <http://www.springer.com/series/13913> for a full list of titles in the series Adrian Wallwork is the author of more than 30 ELT and EAP textbooks He has trained several thousand PhD students and academics from 35 countries to write research papers prepare presentations and communicate with editors referees and fellow researchers 25 AIIMS Physics Chapter-wise Solved Papers (1997-2018) with Revision Tips & 3 Mock Online Tests Disha Experts, Chapter wise 25 Physics Solved Papers AIIMS 1997 2018 with Revision Tips 3 Online Tests consists of 4 papers of 2018 Online AIIMS with 21 Solved Papers from 1997 2017 distributed into 28 Chapters The book also provides Important Points to Remember Problem Solving Tips useful to revise the syllabus before the exam 3 Online Tests of Physics are also provided with this book These tests can be accessed through a voucher code The book contains around 1500 MCQs 1000 Simple MCQs and 500 Assertion Reason type MCQs Mozambique at a Fork in the Road António S. Cruz,Ines A. Ferreira,Johnny Flentø,Finn Tarp,2023-12-21 A diagnostic of the nature and quality of institutions in Mozambique analysing deep factors and proximate causes affecting development **New Challenges to Food Security** Ian Christoplos,Adam Pain,2014-11-13 Food security is high on the

political agenda Fears about societal insecurity due to food price increases and hunger grave scenarios regarding the effects of climate change and general uncertainty about the impacts of investments in biofuels and so call land grabbing on food prices and availability have meant that food security is now recognised as being a multifaceted challenge This book is unique in that it will bring together analyses of these different factors that impact on food security This volume will describe a range of different perspectives on food security with an emphasis on the various meanings that are applied to food security crisis The challenges to be reviewed include market volatility climate change and state fragility Analyses of responses to food security crises and risk will cover rural and urban contexts arenas of national policy formation and global food regimes and investment in land and productive technologies This book is unique in two respects First it takes a step back from the normative literature focused on specific factors of for example climate change agricultural production or market volatility to look instead at the dynamic interplay between these new challenges It helps readers to understand that food security is not one discourse but is rather related to how these different factors generate multiple risks and opportunities Second through the case studies the book particularly emphasises how these factors come together at local levels as farmers entrepreneurs consumers local government officials and others are making key decisions about what will be done to address food security and whose food security will be given priority The book will explore how food production and consumption is embedded in powerful political and market forces and how these influence local actions

Political Economy of East Asian Economic Integration Fusanori Iwasaki, Keita Oikawa, Shujiro Urata, 2025-02-25 This book studies the influence of the Regional Comprehensive Economic Partnership RCEP on the East Asia region and the rest of the world from an international relations perspective Analysing the history and negotiation process of RCEP through a collection of written interviews from negotiators involved in the RCEP this book helps readers understand the origins proceedings and characteristics of mega regional trade integration Individual case studies analyse the RCEP negotiations from the viewpoint of various states or economic blocs such as ASEAN Australia China Japan the European Union EU and the United States Several chapters also illustrate the dynamism of the regional architecture in East Asia concerning other regional movements including the Trans Pacific Partnership TPP Comprehensive and Progressive TPP CPTPP Belt and Road Initiative and the newly launched Indo Pacific Economic Framework IPEF In sum the chapters illustrate how RCEP member countries and non member countries try to utilise maximise their national interests This book will interest researchers of international relations international politics international economics and international political economy as well as policymakers and negotiators responsible for future regional economic integration projects

*The Courteous Power* John D. Ciorciari, Kiyoteru Tsutsui, 2021-11-08 The Courteous Power seeks to provide a nuanced view of the current relationship between Japan and Southeast Asia Much of the current scholarship on East Southeast Asian engagement has focused on the multidimensional chess game playing out between China and Japan as the dominant post imperialist powers Alternatively there has been renewed attention on ASEAN

and other Southeast Asian centered initiatives explicitly minimizing the influence of East Asia in the region Given the urgency of understanding the careful balance in the Indo Pacific region this volume brings together scholars to examine the history and current engagement from a variety of perspectives ranging from economic and political to the cultural and technological while also focusing more clearly on the specific relationship between the region and Japan

**KVPY 11 Years Solved Papers 2019-2009 Stream SB/SX** Lakshman Prasad,Deepak paliwal,Mansi Garg,Neha Minglani,Sanubia Saleem,2020-03-10 The Kishore Vigyanik Protsahan Yojana KVPY is a National Level Scholarship exam funded by the Department of Science and Technology aimed at encouraging students to take up research careers in the areas of basic sciences It offers scholarships and contingency grants up to the pre Ph D level to selected students The exam has 3 Streams SA 11 Class SX Class 12 and SB First year BSC The newly revised KVPY 11 Years Solved Papers 2019 2009 SX SB Stream is the complete source of preparation for this scholarship exam This book authentically covers all Original Question Papers of previous years of KVPY exam Detailed and Explanatory solutions are provided for each question helping candidates to comprehend all the related concepts completely and it also allows them to know the pattern and the trend of the questions that are being asked in the exam At last 5 Practice Sets are given at the end of the book for thorough practice that boosts confidence in the students to face the exam and achieve good marks in the exam

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