



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

PART B

(15 x 4 = 60)

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

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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 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

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Numbers in India's Periphery Ankush Agrawal, Vikas Kumar, 2020-10-29 This book analyses the quality of statistics such as geographic area census population and sample survey statistics in a developing country Using field interviews archival sources and secondary data covering the last seven decades it explores the shifting relations between various kinds of statistics over their lifecycles and charts their cradle to grave political career It uncovers a mutually constitutive relationship between data development and democracy and offers an exciting account of how government statistics are social artefacts dynamically shaped by political and economic factors The book also quantifies the impact of data quality on the statistics of interest to policy makers such as household consumption expenditure and federal transfers Numbers in India's Periphery makes a major contribution to the growing literature on the political economy of statistics in developing countries through a novel analysis of the shifting determinants of the nature of data in North East India

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Table of Contents May 2013 S1 Qustion Paper

1. Understanding the eBook May 2013 S1 Qustion Paper
 - The Rise of Digital Reading May 2013 S1 Qustion Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 S1 Qustion Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an May 2013 S1 Qustion Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 S1 Qustion Paper
 - Personalized Recommendations
 - May 2013 S1 Qustion Paper User Reviews and Ratings
 - May 2013 S1 Qustion Paper and Bestseller Lists
5. Accessing May 2013 S1 Qustion Paper Free and Paid eBooks
 - May 2013 S1 Qustion Paper Public Domain eBooks

- May 2013 S1 Qustion Paper eBook Subscription Services
- May 2013 S1 Qustion Paper Budget-Friendly Options
- 6. Navigating May 2013 S1 Qustion Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - May 2013 S1 Qustion Paper Compatibility with Devices
 - May 2013 S1 Qustion Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 2013 S1 Qustion Paper
 - Highlighting and Note-Taking May 2013 S1 Qustion Paper
 - Interactive Elements May 2013 S1 Qustion Paper
- 8. Staying Engaged with May 2013 S1 Qustion Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2013 S1 Qustion Paper
- 9. Balancing eBooks and Physical Books May 2013 S1 Qustion Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2013 S1 Qustion Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May 2013 S1 Qustion Paper
 - Setting Reading Goals May 2013 S1 Qustion Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 2013 S1 Qustion Paper
 - Fact-Checking eBook Content of May 2013 S1 Qustion Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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