

- 12 a) Describe the construction and working of Li-ion battery. What are the major advantages of it? (10)
- b) Calculate the EMF of the cell at 25°C: (4)
- $\text{Al} / \text{Al}^{3+}(0.1\text{M}) // \text{Sn}^{4+}(0.1\text{M}) / \text{Sn}^{2+}(0.01\text{M})$
- $E^{\circ}_{\text{Al}^{3+}/\text{Al}} = -1.66 \text{ V}$ ,  $E^{\circ}_{\text{Sn}^{4+}/\text{Sn}^{2+}} = 0.15 \text{ V}$

**Module-II**

- 13 a) Define chemical shift in NMR and explain the factors affecting chemical shift with examples. (8)
- b) Calculate the force constant of H-F molecule that is showing IR absorption signal at  $4000 \text{ cm}^{-1}$ . By what factor do you expect this frequency to shift if Deuterium is substituted for Hydrogen in this molecule? Given that atomic masses of H and F are 1u and 19 u, respectively. (6)
- 14 a) How many vibrational modes are possible for the molecules CO, NO, CO<sub>2</sub> and H<sub>2</sub>O? Draw the vibrational modes of CO<sub>2</sub> and H<sub>2</sub>O and explain their IR active modes. (8)
- b) Each compound gives only one signal in its <sup>1</sup>H-NMR spectrum. Propose a structural formula for each. a) C<sub>5</sub>H<sub>12</sub> and b) C<sub>5</sub>H<sub>10</sub>O (6)

**Module-III**

- 15 a) Describe the instrumentation, principle and working of SEM with the help of a labelled diagram. Give any two applications. (10)
- b) Explain the visualization techniques used in thin layer chromatography. (4)
- 16 a) Describe the principle, instrumentation, procedure and applications of HPLC. (10)
- b) How TGA is used to analyze thermal stability of polymers? (4)

**Module-IV**

- 17 a) Discuss the conformations in butane by depicting the Newman formula about C2-C3 bond of all the conformers. Also draw the energy level diagram with dihedral angle. (10)
- b) How is ABS synthesized? Mention some applications. (4)
- 18 a) Explain the rules for assigning R-S configuration and determine the R-S configuration of all the asymmetric carbon atoms in the molecule after writing its Fischer projection formula. (8)

# Engineering Chemistry Paper Solved 2010

**H Kauffman**



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## **Table of Contents Engineering Chemistry Paper Solved 2010**

1. Understanding the eBook Engineering Chemistry Paper Solved 2010
  - The Rise of Digital Reading Engineering Chemistry Paper Solved 2010
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Chemistry Paper Solved 2010
  - 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 Engineering Chemistry Paper Solved 2010
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Chemistry Paper Solved 2010
  - Personalized Recommendations
  - Engineering Chemistry Paper Solved 2010 User Reviews and Ratings
  - Engineering Chemistry Paper Solved 2010 and Bestseller Lists

5. Accessing Engineering Chemistry Paper Solved 2010 Free and Paid eBooks
  - Engineering Chemistry Paper Solved 2010 Public Domain eBooks
  - Engineering Chemistry Paper Solved 2010 eBook Subscription Services
  - Engineering Chemistry Paper Solved 2010 Budget-Friendly Options
6. Navigating Engineering Chemistry Paper Solved 2010 eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Chemistry Paper Solved 2010 Compatibility with Devices
  - Engineering Chemistry Paper Solved 2010 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Chemistry Paper Solved 2010
  - Highlighting and Note-Taking Engineering Chemistry Paper Solved 2010
  - Interactive Elements Engineering Chemistry Paper Solved 2010
8. Staying Engaged with Engineering Chemistry Paper Solved 2010
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Chemistry Paper Solved 2010
9. Balancing eBooks and Physical Books Engineering Chemistry Paper Solved 2010
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Chemistry Paper Solved 2010
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Chemistry Paper Solved 2010
  - Setting Reading Goals Engineering Chemistry Paper Solved 2010
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Chemistry Paper Solved 2010
  - Fact-Checking eBook Content of Engineering Chemistry Paper Solved 2010
  - 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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