

- 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 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, CO₂ and H₂O? Draw the vibrational modes of CO₂ and H₂O and explain their IR active modes. (8)
- b) Each compound gives only one signal in its ¹H-NMR spectrum. Propose a structural formula for each. a) C₅H₁₂ and b) C₅H₁₀O (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 20

Robert R. Redfield



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Table of Contents Engineering Chemistry Paper Solved 20

1. Understanding the eBook Engineering Chemistry Paper Solved 20
 - The Rise of Digital Reading Engineering Chemistry Paper Solved 20
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Chemistry Paper Solved 20
 - 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 20
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Chemistry Paper Solved 20
 - Personalized Recommendations

- Engineering Chemistry Paper Solved 20 User Reviews and Ratings
- Engineering Chemistry Paper Solved 20 and Bestseller Lists
- 5. Accessing Engineering Chemistry Paper Solved 20 Free and Paid eBooks
 - Engineering Chemistry Paper Solved 20 Public Domain eBooks
 - Engineering Chemistry Paper Solved 20 eBook Subscription Services
 - Engineering Chemistry Paper Solved 20 Budget-Friendly Options
- 6. Navigating Engineering Chemistry Paper Solved 20 eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Chemistry Paper Solved 20 Compatibility with Devices
 - Engineering Chemistry Paper Solved 20 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Chemistry Paper Solved 20
 - Highlighting and Note-Taking Engineering Chemistry Paper Solved 20
 - Interactive Elements Engineering Chemistry Paper Solved 20
- 8. Staying Engaged with Engineering Chemistry Paper Solved 20
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Chemistry Paper Solved 20
- 9. Balancing eBooks and Physical Books Engineering Chemistry Paper Solved 20
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Chemistry Paper Solved 20
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Chemistry Paper Solved 20
 - Setting Reading Goals Engineering Chemistry Paper Solved 20
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Chemistry Paper Solved 20
 - Fact-Checking eBook Content of Engineering Chemistry Paper Solved 20

- 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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