



The Pearson Guide to UGC-CSIR Chemical Sciences

By Sanjay Rawal

Pearson Education, 2012. Softcover. Book Condition: New. First edition. The Pearson Guide to UGC-CSIR Chemical Sciences has been specially designed to cater to the needs of the candidates appearing for National Eligibility Test for Junior Research Fellowship (JRF) and Lectureship in the field of chemistry. This book emphasizes conceptual understanding by explaining fundamentals principles in a lucid and unambiguous manner. The wide variety of exercises, based on both concepts and applications, encourage students to analytically handle problems with confidence, speed and precision. Contents Part A: Chemical Science 1. Quantum chemistry 2. Group theory 3. Basic principles and application of spectroscopy?rotational, vibrational, electronic, Raman, ESR, NMR 4. Chemical thermodynamics 5. Statistical thermodynamics 6. Chemical kinetics and catalysis 7. Chemical and phase equilibrium 8. Electrochemistry 9. General organic chemistry 10. Stereochemistry and isomerism 11. Elimination reactions 12. Substitution reactions 13. Electrophilic addition reaction 14. Nucleophilic addition reaction 15. Electrophilic aromatic substitution 16. Oxidation reactions 17. Reduction reactions 18. Pericyclic reaction 19. Organic photochemistry 20. Complex compounds 21. Organometallic compounds 22. Analytical chemistry Part B: General Science MCQ Bank Part C: Practice Test Papers Printed Pages: 584.



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