

Master of Science (Chemistry)
Second Semester Main Examination, June-2021
Group Theory & Spectroscopy-II [MSC204T]

Time: 3:00 Hrs**Max Marks 85****Note: Attempt all questions. All questions carry equal marks.**

- Q.1 (a) What happens when a spinning nucleus is placed in a magnetic field? Explain in Details?
(b) Explain in details the term 'Chemical shift' and its measurements.
OR
(c) What do you mean by Chemically equivalent protons? Explain with example?
(f) Write the structure formulae for the compounds with the following formulae that show only one signal in their PMR Spectra
(i) C_5H_{12}
(ii) C_3H_6
(iii) C_2H_6O
- Q.2 (a) Explain electric field gradient and coupling constant.
(b) Write a note on Quadrupole moment.
OR
(c) Discuss the theory of NQR
(f) What are the applications of NQR?
- Q.3 (a) Explain the difference between ESR & NMR?
(b) Explain Mosley's law?
OR
(a) Discuss different components of ESR spectrometer and its experimental techniques.
(b) Write in details the types of Hyperfine interactions?
- Q.4 (a) Deduce Bragg's equation and find the distance between successive lattice planes in crystal.

Msc Chemistry Spectroscopy Question Papers

Sabine Zange



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Table of Contents Msc Chemistry Spectroscopy Question Papers

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

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