

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

WJ Hussar



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JAM IIT Chemistry Question Bank MSC Entrance Mocktime Publication, The IIT JAM Chemistry code CY question bank includes topic wise drills Inorganic Organic Physical Chemistry Analytical Environmental Chemistry previous year JAM papers in PDF with solutions books with aligned notes and model test series The exam pattern for JAM Chemistry consists of 60 questions 100 marks across Sections A B C MCQs MSQs NATs consistent with IIT JAM structure The question bank aids entrants by exposing them to high frequency topics helping develop speed and accuracy and offering revision material and full length tests that mirror actual exam conditions Ideal for MSc entrance preparation in top institutes CUET-PG MSc Life Science Practice Set Book 3400+ Question Answer Unit Wise [8 UNits] With Explanations Question Bank DIWAKAR EDUCATION HUB ,2022-08-18 CUET Life Science PGQP22 Complete Practice Question Answer Sets 3400 MCQ Unit Wise from Cover All 8 Units Techniques Chromatin structure and function Biochemistry Biotechnology Microbiology Molecular Genetics Plant Sciences Animal Sciences Highlights of CUET Life Science Question Bank 3400 Questions Answer Included With Explanation 400 MCQ of Each UNit with Explanations As Per Updated Syllabus Include Most Expected MCQ as per Paper Pattern Exam Pattern All Questions Design by Expert Faculties JRF Holder **Canadian Spectroscopy** ,1967

Laboratory Practice ,1986 **Scientific and Technical Aerospace Reports** ,1986 Ontario Geological Survey Miscellaneous Paper Ontario Geological Survey,Ontario. Ministry of Natural Resources,1976 **Directory of British Scientists** ,1966 **Men of Sciences & Technology in India** ,1964 **Men of Sciences & Technology in India** Raj K. Khosla,1967 **American Men and Women of Science** ,1977 **Dictionary of International Biography** ,1998 A biographical record of contemporary achievement together with a key to the location of the original biographical notes *New Scientist* ,1979 **Who's who in America** ,2003 **Who's who in Engineering** ,1980 *Australian Journal of Chemistry* ,2009 Who's Who in the West Marquis Who's Who,2006-06 *Literature on Information Retrieval and Machine Translation* ,1966 **Literature on Information Retrieval and Machine Translation** Charles F. Balz,Richard H. Stanwood,1966 **Optical Engineering** ,2004 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis,Marquis Who's Who,2007-12

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