

**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

**VM Jensen**



## Msc Chemistry Spectroscopy Question Papers:

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