

M.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020
II YEAR III SEMESTER
Physical Chemistry - III

Max.marks :25

Answer any **FIVE** questions ($5 \times 5 = 25$) Marks

1. Write a note on the solvent effects on UV spectra.
2. Write a short note on Fermi resonance.
3. Explain McLafferty rearrangement.
4. Explain the model of a rigid rotor.
5. Explain the variation method as applied to helium atom.
6. Discuss the quadrupole interactions and magnetic interactions.
7. Explain the origin of quantum numbers.