

M.Sc DEGREE EXAMINATION, EVEN SEMESTER 2021
II Year III Semester
PHYSICAL CHEMISTRY - III

Max.marks :25

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

1. Discuss about the factors affecting the width of spectral lines.
2. Explain Frank Condon principle.
3. With necessary diagram explain PQR branches.
4. Explain NMR of AX and AMX type molecules.
5. Write note on Mc Lafferty rearrangement.
6. Discuss the origin of quantum numbers.
7. Explain LCAO – MO theory.