

**M.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020  
II YEAR III SEMESTER  
ORGANIC CHEMISTRY - III**

**Max.marks :25**

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

1. Discuss the effect of hydrogen bonding on vibrational frequency.
2. How are geometrical isomers differentiated by UV spectra?
3. With necessary graph explain Karplus curve.
4. Explain the principle behind  $^{13}\text{C}$  NMR.
5. Write note on McLefferty rearrangement.
6. Discuss the use of NMR in polymer.
7. Explain the use of Shift reagents with example.