

M.Sc DEGREE EXAMINATION, EVEN SEMESTER 2021
II Year IV Semester
Organic Chemistry - IV

Max.marks :25

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

1. Explain 4+2 cycloaddition reaction with correlation diagram.
2. Describe the primary and secondary structures of protein.
3. Prepare the following molecules (i)Cubane (ii)5-hexanoic acid
4. Recommend a suitable method to protection and deprotection of the following functional groups (i)-OH (ii)-NH₂
5. Deduce the mechanism and the synthetic applications of Suzuki reaction.
6. Relate the roles of PTC and Crown ethers in organic synthesis.
7. Predict the mechanism of McMurray reaction and mention its synthetic applications.