

**M.Sc. DEGREE EXAMINATION, APRIL 2020**  
**II Year IV Semester**  
**Organic Chemistry - IV**

**Time : 3 Hours**

**Max.marks :75**

**Section A** ( $10 \times 2 = 20$ ) Marks

Answer any **TEN** questions

1. What are electrocyclic reactions?
2. Define Sigmatropic reaction
3. What do you mean by tertiary structure of proteins?
4. Give a preparation of tripeptide.
5. Define Synthetic equivalent
6. What is Umpolung addition?
7. Give one use of Grignard reagent in synthetic organic chemistry
8. How is Aldehyde protected?
9. What are Green reagents?
10. Write down one application of Gilmann reagent.
11. What is metathesis?
12. What do you mean by crown ether?

**Section B** ( $5 \times 5 = 25$ ) Marks

Answer any **FIVE** questions

13. Discuss the FMO analysis of cyclo addition.
14. How is the primary structure of proteins determined?
15. With necessary equation give the synthesis of Cubane.
16. Explain the retrosynthetic analysis of 1,5-dicarbonyl compound.
17. Write note on Mc Murray coupling.
18. What is PTC? Give any one method of preparation and two uses.
19. Explain Baldwins rule with suitable example.

**Section C** ( $3 \times 10 = 30$ ) Marks

Answer any **THREE** questions

20. Discuss the FMO analysis of electrocyclic reactions.
21. Explain the structural elucidation of morphine.
22. Briefly explain the synthesis of Longifoline.
23. Write down a brief account of protection and deprotection of functional groups.
24. Discuss Heck and Negishi coupling.

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