

QP CODE: 112331

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
March 2020**

M.Pharm (Pharmaceutical Chemistry)

Paper II: Advanced Organic Chemistry I (MPC 102T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Give detail mechanism of Brook rearrangement and Dieckmann reaction.
2. Compare and contrast SN^1 versus E_1 and SN^2 versus E_2
3. Describe about the applications of aluminium isopropoxide and dicyclohexylcarbodiimide (DCC) reagents in organic reactions with examples.

Short Notes

(9x5=45)

4. Vilsmeier - Haack reaction
5. Give a strategy for the synthesis of 5 and 6 membered rings.
6. Berntsen acridine synthesis
7. Synthesis of trimethoprim.
8. Nitrenes.
9. Addition reactions.
10. Ugi reaction.
11. Wittig reagent.
12. A compound A on ozonolysis gave equimolar amounts of ethyl methyl ketone and acetone. Give the structure of A.
