

QP CODE: 212331

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
October 2023**

M.Pharm (Pharmaceutical Chemistry)

Paper II - Advanced Organic Chemistry-II (MPC 202T)

(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. Explain continuous flow reactions, working principle and synthetic applications
2. Explain the segment and sequential strategies for solution phase peptide synthesis with a case study
3. Methods of asymmetric synthesis using chiral pool and chiral auxiliaries

Short Notes

(9x5=45)

4. Effect of solvent in microwave assisted synthesis
5. Photo-oxidation and photo addition reactions
6. Electro cyclic reaction
7. Biocatalysts and use of enzymes
8. Explain hydrogenation reactions
9. Ziegler-Natta catalysis
10. Side reactions in peptide synthesis
11. Coupling reaction in peptide synthesis
12. Principle of green chemistry

CORRECTION / NO-CORRECTION FILE

QPCODE: 212331

Dated: 13-10-2023

Question No.1

The term 'reactions' is modified as "reactors".

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS