

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 reactors 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

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