

QP CODE: 212331

Reg. No:.....

**Second Semester M. Pharm Degree Supplementary Examinations  
December 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 the applications of homogeneous and heterogeneous catalysis in synthesis of drugs with examples.
2. Explain different types of sonochemical reactions.
3. Explain principles of solid phase peptide synthesis with suitable examples.

**Short Notes**

**(9x5=45)**

4. Fischers D and L notation.
5. Write the basic principles of photochemical reactions.
6. Write short notes on site – specific chemical modifications of peptides.
7. Explain on enantiopure separation.
8. Explain advantages and disadvantages of microwave assisted synthesis.
9. With suitable example explain sigmatropic rearrangement reactions.
10. Briefly explain biocatalysis.
11. List out the applications of continuous flow reactors.
12. Explain any two methods of asymmetric synthesis.

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