

QP CODE: 212331

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
February 2021**

M.Pharm (Pharmaceutical Chemistry)

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

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. Discuss in detail the coupling reactions in peptide synthesis. Add a note on side reactions in peptide synthesis
2. What is green chemistry. Explain its merits and demerits. Add a note on applications of microwave technology in various organic reactions.
3. Discuss in detail the types of catalysis. Add a note on homogenous and heterogeneous catalysis in synthesis of drugs

Short Notes

(9x5=45)

4. Discuss the effects of solvents in microwave assisted synthesis
5. Add a note on site - specific chemical modification of peptides.
6. Discuss the terms meso compounds and pseudo asymmetric centres.
7. Discuss the types of sonochemical reactions and their synthetic applications
8. Add a note on solid phase peptide synthesis using BOC chemistry.
9. Discuss the terms photo addition and photo fragmentations with examples.
10. Theory and applications of phase transfer catalysis.
11. Stereo selective synthesis with examples.
12. Asymmetric synthesis using chiral pool
