

QP CODE: 212331

Reg. No:.....

**Second Semester M.Pharm Degree Supplementary Examinations
January 2019**

M.Pharm (Pharmaceutical Chemistry)

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

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain sequential strategies for solution phase peptide synthesis with a case study
2. Explain the principles and various techniques involved in green chemistry. Enumerate on the applications and limitations of microwave enhanced organic synthesis
3. What are pericyclic reactions. Explain the mechanism of cycloaddition reaction with suitable example.

Short Notes

(9x5=45)

4. Solid phase peptide synthesis
5. Explain in detail about the various solid supports and linkers
6. Wilkinson catalysts
7. Give the advantages and disadvantages of catalysis
8. Give a note on liquid solid reaction and synthetic application
9. Explain the sigmatropic rearrangement reaction with examples
10. Explain methods of asymmetric synthesis using chiral pool
11. Coupling reaction in peptide synthesis
12. Discuss any three methods for resolution of racemic compounds
