Second Semester M. Pharm Degree Regular/Supplementary Examinations May 2022

M.Pharm (Pharmaceutical Chemistry)

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

Time: 3 Hours

QP CODE: 212331

- 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

- 1. Elaborate on the cyclo-addition, electrocyclic reactions and sigmatropic rearrangement reaction with examples.
- 2. Explain formation of free peptides and peptide amides. Describe site specific chemical modifications of peptides.
- 3. Describe the merits and demerits of microwave assisted green synthesis reactions, Add a note on its applications in organic reactions and heterocycle synthesis.

Short Notes

- 4. Classify sonochemical reactions with examples.
- 5. Explain the basic principles of photochemical reactions.
- 6. Describe photo fragmentation with an example.
- 7. Activation process in solid phase synthesis.
- 8. Explain the applications of phase transfer catalysis.
- 9. What is asymmetric synthesis. Explain the catalysts used in asymmetric synthesis.

- 10. Define meso compound. Write a note on E and Z notation.
- 11.Write notes on working principle of continuous flow reactors.
- 12. Write the characteristics of homogeneous catalysis.

Reg. No:....

(3x10=30)

(9x5=45)

Total Marks: 75