First Semester M.Pharm Degree Regular/Supplementary Examinations April 2023 M.Pharm (Pharmaceutical Chemistry)

Paper III – Advanced Medicinal Chemistry (MPC 103T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours

- 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. What are the various stages of drug discovery. Add a note on lead discovery
- 2. Describe the principles of enzyme inhibitors and explain the rational design of covalently binding enzyme inhibitors
- 3. Explain the design of peptidomimetics by manipulation of amino acids.

Short Notes

- 4. Discuss the role of stereochemistry in drug action
- 5. Design of prodrug for sustained drug action
- 6. What are the various types of receptors
- 7. Discuss the strategies to combat drug resistance in antibiotics
- 8. Describe the mechanism of action of H_1 and H_2 receptor antagonist
- 9. Explain the analog design approach for changes in ring size
- 10.Discuss the chemistry of thromboxanes.
- 11. Give the synthesis and mechanism of action of any one antineoplastic agents
- 12. Describe the SAR for the β adrenergic blocking agents.

(3x10=30)

Total Marks: 75

(9x5=45)

Reg. No:....