

QP CODE: 113331

Reg. No:.....

First Semester M.Pharm Degree Supplementary Examinations July 2025
M.Pharm (Pharmaceutical Chemistry)
Paper III – Advanced Medicinal Chemistry (MPC 103T)
(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 various stages of drug discovery process and add a note on lead discovery.
2. List out the various strategies to combat drug resistance in antibiotic therapy.
3. Explain the rational design of covalently binding enzyme inhibitors with two case studies.

Short Notes

(9x5=45)

4. Enlist the role of enzyme inhibitors in medicine.
5. Explain the chemistry of prostaglandins.
6. What are peptidomimetics. Explain the therapeutic values of peptidomimetics.
7. Discuss the bioisosteric replacement strategies.
8. Explain the role of enantioselectivity in drug absorption.
9. Write the SAR of antihypertensive drugs.
10. Discuss classical and non-classical analog design.
11. Discuss the practical consideration of prodrug design.
12. Differentiate between agonists and antagonists.
