

QP CODE: 113331

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
March 2020**

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 in detail the process of drug discovery.
2. What are the different types of receptors and explain the concepts of agonist and antagonists.
3. Explain in detail the concept of analog design.

Short Notes

(9x5=45)

4. Explain the genetic principles of drug resistance
5. What are artificial enzymes.
6. COX1 inhibitors.
7. Enzyme inhibitors in medicine.
8. Design of peptidomimetics.
9. Role of chirality in drug action with an example.
10. Give the synthesis of a H₂ antagonist.
11. Chemistry of prostaglandins.
12. Phase-1 metabolism.
