

QP CODE: 113331

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
February 2022
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 strategies to combat drug resistance in antibiotics with genetic principles of drug resistance.
2. Write the role of chirality in selective and specific therapeutic agents with any two case studies.
3. Explain the Rational drug design of enzyme inhibitors.

Short Notes

(9x5=45)

4. Write the concept of Enantio selectivity in drug ADME.
5. Write short notes on design of peptidomimetics.
6. Explain the chemistry of prostaglandins.
7. Explain the stages of drug discovery.
8. Explain bioisosteric replacement strategies.
9. Explain the theories of drug receptor interaction.
10. Briefly explain about causes for drug resistance.
11. Synthesis of any two COX-1 inhibitors.
12. SAR of Antihypertensive drugs.
