

QP CODE: 113331

Reg. No:.....

**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

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. 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 the amino acids.

Short Notes

(9x5=45)

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 H₁ and H₂ receptor antagonist
9. Explain the analog design approach for changes in ring size
10. Discuss the chemistry of thromboxones
11. Give the synthesis and mechanism of action of any one antineoplastic agents
12. Describe the SAR for the β -adrenergic blocking agents.

CORRECTION / NO-CORRECTION FILE

QPCODE: 113331

Dated: 17-04-2023

Question No.3

Corrected as "Explain the design of peptidomimetics by manipulation of amino acids."

Question No.10

Corrected as "Discuss the chemistry of thromboxanes."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

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