

**QP CODE: 113331**

**Reg. No:.....**

**First Semester M.Pharm Degree Supplementary Examinations  
August 2024**

**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 drug discovery and drug development stages. Add a note on target identification.
2. Explain the rational design of covalently binding enzyme inhibitors with 2 case studies.
3. What are peptidomimetics. Explain the design of peptidomimetics by manipulation of phenylalanine as amino acid.

**Short Notes**

**(9x5=45)**

4. Discuss the role of geometrical isomerism in drug action.
5. Design of prodrug for patients acceptability.
6. List different receptors. Explain any one receptor.
7. Discuss the mechanisms of acquiring drug resistance in microorganisms.
8. Classify antihypertensive drugs. Discuss synthesis of any one antihypertensive drug.
9. Define Bioisosterism. Classify with any one case study.
10. Discuss chemistry of prostaglandins.
11. Write the synthesis of any two antihistaminic drug.
12. Discuss about various drug receptor interactions.

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