

QP CODE: 213328

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
October 2023**

M.Pharm (Pharmacology)

Paper III: Principles of Drug Discovery (MPL 203T)

(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. Describe in detail about the role of selected physicochemical properties in relation to drug action and drug design.
2. Describe in detail about the structural factors in drug design. Add a note on prodrug concepts.
3. Explain protein structure prediction and molecular modeling.

Short Notes

(9x5=45)

4. Protein micro arrays and nucleic acid micro arrays.
5. Computer aided drug design.
6. Lead identification and lead optimization.
7. High throughput screening.
8. Zinc finger proteins..
9. COMFA and COMISA.
10. Fee Wilson analysis.
11. Types of docking.
12. Concepts of rational drug designing.
