

QP CODE: 213328

Reg. No:.....

**Second Semester M.Pharm Degree Supplementary Examinations
January 2019**

M.Pharm (Pharmacology)

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

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Discuss about the concepts of rational drug design
2. Explain in detail about lead identification and lead optimization
3. Discuss in detail about the techniques involved in combinatorial chemistry

Short Notes

(9x5=45)

4. Drug likeness screening
5. Application of X- ray crystallography in determination of structure of proteins
6. High-throughput screening
7. Regression analysis
8. De-novo drug design
9. Micro array technology in target identification and validation
10. Bioinformatics
11. Fee Wilson analysis: application in drug development
12. Transgenic animals and their role in drug research
