

QP CODE: 213328

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations  
May 2022**

**M.Pharm (Pharmacology)**

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

**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 quantitative analysis of structure activity relationship.
2. Discuss the rationale and approaches employed in prodrug design citing relevant examples
3. Explain the methodologies involved in traditional and rational drug design

**Short Notes**

**(9x5=45)**

4. Explain target validation
5. Free Wilson analysis
6. Hansch analysis
7. Combinatorial chemistry
8. Antisense nucleotides
9. Zinc finger proteins
10. Explain the Role of transgenic animals in target validation
11. Explain partial least square analysis
12. High throughput screening

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