

QP CODE: 113331

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
January 2021**

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 the different stages of drug discovery
2. Define antiviral agents and classify with suitable examples. Describe the synthesis of acyclovir and zidovudine.
3. Describe enzyme kinetics and principles of enzyme inhibitors.

Short Notes

(9x5=45)

4. Therapeutic values of peptidomimetics.
5. Explain the enantioselectivity in drug ADME.
6. Bioisosteric replacement strategies
7. The application of prodrugs.
8. Drug receptor interaction
9. Psychoactive drugs
10. The synthesis of mercaptopurine and 5-fluorouracil.
11. Explain carrier linked prodrugs /bioprecursors with suitable example
12. Chemistry of leukotrienes.
