

QP Code: 621006

Reg. No.....

**Sixth Semester B. Pharm Degree Supplementary Examinations
June 2025**

Medicinal Chemistry III

(2017 Scheme)

Time: 3 Hours

Max. 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 diagrams wherever necessary*

Essays

(2x10=20)

1. Explain the SAR of Quinolones and write the synthesis and uses of Ciprofloxacin.
2. Explain the chemistry, stereochemistry and chemical degradation and SAR of Penicillin.

Short Notes

(7x5=35)

3. Explain the basic concepts of prodrugs.
4. Explain the chemistry of tetracyclines and their uses.
5. Outline the synthesis of Chloramphenicol and its uses.
6. Classify antimalarials with examples.
7. Explain the importance of docking techniques.
8. Explain the mechanism of action of Diethylcarbamazine citrate.
9. Write the synthesis of Miconazole.

Answer Briefly

(10x2=20)

10. Write the structure of Isoniazid and its uses.
11. Synthesis of Trimethoprim.
12. Write the structure and uses of Acyclovir.
13. Write the mechanism of action of Amphotericin-B.
14. Note on partition coefficient as QSAR parameter.
15. Name any two Macrolide antibiotics with its uses.
16. Outline the synthesis of Pamaquine.
17. Structure and uses of Albendazole.
18. Write the structure of any two antiviral drugs used in HIV infections.
19. A brief note on Hansch analysis.
