

QP Code: 621006

Reg. No.....

**Sixth Semester B. Pharm Degree Regular/Supplementary Examinations  
February 2024  
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 Solid Phase and Solution Phase synthesis. Enlist the applications of Combinatorial Chemistry.
2. Classify Antitubercular agents with examples. Outline the synthesis and mechanism of action of Isoniazid.

**Short Notes**

(7x5=35)

3. Explain the chemistry of Aminoglycosides with examples.
4. Outline the synthesis and uses of Chloroquine.
5. Classify Cephalosporins with examples.
6. Explain the SAR of Quinolines.
7. Write the synthesis and uses of Trimethoprim.
8. Classify Anthelmintics with examples.
9. Classify urinary tract anti-infective agents with examples.

**Answer Briefly**

(10x2=20)

10. Enlist the various approaches used in drug design.
11. Give the structure and use of any one lactamase inhibitors.
12. Synthesis of acyclovir.
13. Outline the synthesis of Tolnaftate.
14. Any two antifungal antibiotics with their uses.
15. Write the structure of Metronidazole with its uses.
16. Write the structure of Sulfacetamide with its uses.
17. Write the structure and uses of monobactams.
18. Write the structure and uses of Proguanil.
19. Write the structure and uses of Dapsone.

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