

QP Code: 621006

Reg. No.....

**Sixth Semester B. Pharm Degree Supplementary Examinations  
December 2022  
Medicinal Chemistry  
(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. Discuss the chemistry mechanism of action and adverse effects of Tetracyclines.
2. Describe the concept and applications of combinatorial chemistry.

**Short Notes**

**(7x5=35)**

3. Classify anti-tubercular drugs with examples.
4. Discuss the SAR of Quinolones.
5. Explain the etiology of malaria.
6. Outline the synthesis and mechanism of action of trimethoprim.
7. Discuss antiviral drugs with examples.
8. Outline the synthesis and uses of Dapsone and sulfacetamide.
9. Discuss the chemical degradation of Penicillin.

**Answer Briefly**

**(10x2=20)**

10. Outline the synthesis of chloramphenicol.
11. Discuss the mechanism of action of anthelmintics.
12. Write the structure and uses of miconazole.
13. Explain briefly about macrolide antibiotics.
14. Outline the synthesis of chloroquine.
15. Give the structure and uses of a  $\beta$ -lactamase inhibitor.
16. Write the structure of an antifungal antibiotic.
17. Outline the synthesis of mebendazole.
18. Write the structure and uses of a Biguanide.
19. Define antiprotozoal drugs with examples.

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