

QP Code: 621006

Reg. No.....

**Sixth Semester B. Pharm Degree Regular/Supplementary Examinations  
May 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. Outline the various physicochemical parameters used in QSAR based drug design.
2. Classify antiviral drugs with examples. Outline the synthesis of Acyclovir.

**Short Notes**

**(7x5=35)**

3. Outline the synthesis and uses of Dapsone and metronidazole.
4. Write a short note on anti-protozoal agents with examples.
5. Outline the synthesis and mechanism of action of chloroquine.
6. Classify antifungal agents with examples.
7. Give the structure of Sulphamethoxazole. Discuss its mechanism of action and uses.
8. Write a note on solution phase synthesis.
9. Discuss the SAR of Quinolines.

**Answer Briefly**

**(10x2=20)**

10. Write the structure of 8-amino quinoline and 4-amino quinoline
11. Enlist the commonly used urinary tract anti-infectives.
12. Write the structure of Mefloquine and Proguanil.
13. Outline the synthesis of diethyl carbamazine.
14. Give the structure and uses of tolnaftate.
15. Discuss the chemistry of aminoglycosides.
16. Outline the synthesis of sulphamethoxazole.
17. Write the structure and uses of a monobactam.
18. Define anthelmintics with examples.
19. Give the structure and uses of a folate reductase inhibitor.

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