

FACULTY OF PHARMACY

B. Pharmacy VI - Semester (PCI) (Backlog) Examination, March 2024

Subject: Medicinal Chemistry-III

Time: 3 Hours

Max. Marks: 75

PART – A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Define & classify antibiotics?
2. Write the MOA and uses of Ampicillin & Tetracycline?
3. Give the structure and uses of Mefloquine?
4. Write the MOA and uses of Clindamycin & Azithromycin?
5. Write the structure of Ethambutol & Ciprofloxacin?
6. Give the structure and uses of para amino salicylic acid.
7. What are folate reductase inhibitors?
8. Give the structure and uses of Mebendazole?
9. Write the applications of prodrugs?
10. Define Taft's steric parameter and Hammett's electronic parameter?

PART – B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Define Beta lactam antibiotics and explain the classification, SAR and chemical degradation of Penicillins?
12. Give the chemical classification of antiviral drugs. Write the synthesis, mode of action and uses of any one antiviral drug.
13. Write the chemical classification of antifungal agents. Write the synthesis, mode of action and uses of Miconazole?

PART – C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Classify Beta lactam antibiotics with examples?
15. Write the structure, SAR and uses of Tetracyclines?
16. Write the structure, synthesis, mode of action and uses of Chloramphenicol?
17. Give a short note on Prodrugs?
18. Explain the structure, synthesis and uses of Chloroquine?
19. Write the structure, synthesis and uses of Dapsone?
20. Give the concept and applications of combinatorial chemistry?
21. Write the structure, synthesis and uses of Sulfmethoxazole?
22. Give the structure, synthesis and uses of Isoniazid?
