

Rajiv Gandhi University of Health Sciences, Karnataka
Sixth Semester B. Pharm Degree Examination – 29-May-2024 *Supply*
Max. Marks: 75 Marks

Time: Three Hours

MEDICINAL CHEMISTRY-III

Q.P. CODE: 5023

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.
All the Questions are compulsory.

2 x 10 = 20 Marks

LONG ESSAYS

1. What are antifungal agents? Classify them with examples. Describe in detail about polyene antifungal agents.

OR

2. What are antibiotics? Discuss the stereochemistry and SAR of tetracyclines.
Classify antimalarial agents. Describe the life cycle of malaria with the neat diagram. Write the synthesis of pamaquine.

7 x 5 = 35 Marks

SHORT ESSAYS

3. Discuss the SAR of Sulfonamides.

OR

Write the degradation of the cephalosporins.

4. Define and classify prodrugs with examples.

OR

5. Outline the synthesis of chloroquine. Discuss about SAR of 4-amino quinolines.
What are anti TB drugs? Enlist the problems associated with the treatment. Give the synthesis of Para amino salicylic acid and INH.
6. Discuss the physicochemical parameters used in quantitative structural activity relationship.
7. Write a note on penicillinase resistance penicillins.
8. Discuss the miscellaneous urinary tract anti-infectives. Outline the synthesis of ciprofloxacin.
9. Discuss chemistry of macrolide antibiotics. Give their uses and side effects.

10 x 2 = 20 Marks

SHORT ANSWERS

10. Give the synthesis of Metronidazole.
11. Write the structure and uses of Enoxacin.
12. Write the synthesis of sulfacetamide.
13. Name any two antibiotics used as antiviral drugs with its structure.
14. Define prodrug with one example.
15. Structure and uses of Clotrimazole.
16. Mention the steric parameters used in QSAR.
17. Structure and uses of Atovaquone.
18. Write synthesis of Acyclovir.
19. Write the structure and use of Doxycycline.
