

Rajiv Gandhi University of Health Sciences, Karnataka
Sixth Semester B. Pharm Degree Examination – 11-Nov-2021

Time: Three Hours

Max. Marks: 75 Marks

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.

LONG ESSAYS

2 x 10 = 20 Marks

1. What are antifungal agents? Describe in detail about polyene antifungal agents.

OR

Classify antimalarial agents. Describe the life cycle of malaria.

2. What are antibiotics? Classify with examples. Discuss the SAR and MOA of tetracyclines.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Discuss about beta lactamase inhibitors.

OR

Give the examples of substituted Imidazole's as antifungal agents? Give the synthesis of Miconazole.

4. Write the methods and applications of combinatorial chemistry.

OR

Outline the synthesis of chloroquine. Discuss about SAR of Quinolines.

5. Discuss about miscellaneous antimalarial agents.
6. Write a note on urinary tract anti-infectives. Outline the synthesis of Ciprofloxacin.
7. Add a note on folate reductase inhibitors. Explain the synergetic action of Sulphamethoxazole and Trimethoprim.
8. What are anti TB drugs? Enlist the problems associated with the treatment. Give the structure of Para amino salicylic acid and INH.
9. Write the degradation of the penicillin.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the structure and uses of Sparfloxacin.
11. What are anthelmintics? Give examples.
12. Name any two antibiotics used as antitubercular drugs.
13. Give the synthesis of Sulphamethoxazole.
14. Write the structure and uses of Carbasone.
15. Mention the steric parameters used in QSAR.
16. Write the structure and uses of Streptomycin.
17. Write the structure and uses of Clindamycin.
18. Write the synthesis of Metronidazole.
19. Write the synthesis of Nitrofurantoin.
