

Rajiv Gandhi University of Health Sciences, Karnataka

Sixth Semester B. Pharm Degree Examination – 14-Jun-2022

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. Write four structures of cephalosporin class antibiotics. Write a note on beta lactamase inhibitors and SAR of tetracyclines.

OR

What are antimalarial drugs? Write the malarial life cycle and different drugs acting on the different stages. Write the SAR of Quinolines.

2. Classify Sulphonamides with suitable examples. Explain the SAR among antibacterial sulphonamides. Give the synthesis of Sulfacetamide and Sulfamethoxazole.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the synthesis of Chloroquine and Pamaquine.

OR

What are aminoglycosides? Write the MOA and chemistry of aminoglycoside antibiotics.

4. Write a note on antitubercular antibiotics.

OR

Write a note on Prodrug designing

5. Classify antifungal agents. Give the MOA and synthesis of Tolnaftate.
6. Classify penicillins with examples. Give their mechanism of action.
7. Write the chemistry and MOA of Erythromycin.
8. Classify anthelmintics. Write the synthesis of Diethyl carbamazone and Mebendazole.
9. Define and classify urinary tract anti-infectives and give the synthesis of Ciprofloxacin.

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the structure and uses of Oxytetracycline and Doxycycline.
11. Write the structure and uses of Clindamycin and Proguanil.
12. Give the synthesis of Trimethoprim.
13. Give the structure and uses of Amantadine and Zidovudine.
14. What are antiameobic agents? Write the structure and uses of Tinidazole.
15. Give the synthesis of Nitrofurantoin.
16. Write the structure and uses of Sulfaisoxazole and Mefenide acetate.
17. Write the structures and uses of Diloxanide furoate and iodoquinol.
18. What are causative organisms for tuberculosis?
19. Write the synthesis of Para amino salicylic acid.
