

Rajiv Gandhi University of Health Sciences, Karnataka
Sixth Semester B. Pharm Degree Examination – 16-Nov-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

2 x 10 = 20 Marks

LONG ESSAYS

1. What are β -lactum antibiotics? Classify them with structural examples. Write a note on chemistry and degradation of β -lactum antibiotics.

OR

Define anthelmintics? Classify them with structural examples. Give the synthesis of Diethyl carbamazine citrate and Mebendazole.

2. Define and Classify antimalarial agents with examples. Write the mechanism and synthesis of Chloroquine.

7 x 5 = 35 Marks

SHORT ESSAYS

3. Write the SAR of aminoglycoside antibiotics.

OR

What are Tetracyclines? Write the mechanism of action and chemistry of Tetracyclines.

4. Discuss the chemistry and mechanism of action of macrolide antibiotics.

OR

Write the chemistry and synthesis of Chloramphenicol.

5. Define and classify antitubercular agents with examples. Give the synthesis of Isoniazid.
6. What are anti-viral drugs, classify them with suitable examples.
7. Add a note on synthetic antifungal agents give the synthesis of Tolnaftate.
8. Define and Classify protozoal agents with structural examples. Write the mechanism and synthesis of Metronidazole.
9. Write a note on QSAR and its significance.

10 x 2 = 20 Marks

SHORT ANSWERS

10. Write the structure and uses of Cephaloridine.
11. Write the structure and uses of Clindamycin.
12. Give the synthesis of Pamaquine.
13. Give the structures and uses of Ciprofloxacin and Nitrofurantoin.
14. List out important antifungal antibiotics. Give the structure and uses of any one antifungal antibiotic drug.
15. Write the synthesis of Para amino salicylic acid.
16. Write the structure and uses of Miconazole.
17. What are antiprotozoal agents? Give the structure and uses of Iodoquinol.
18. Give the structure uses of folate reductase inhibitors.
19. What is Hammett's electronic parameter? How is it useful in drug discovery?
