

Rajiv Gandhi University of Health Sciences, Karnataka

Sixth Semester B. Pharm Degree Examination – 02-Dec-2020

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.

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Write the structure and uses of three drugs each from cephalosporins and tetracyclines. Discuss in detail SAR of tetracyclines.
2. What are antimalarial agents? Classify them with examples. Give the mechanism of action of quinolones and outline the synthesis of Pamaquine.
3. What are therapeutic agents? Classify sulphonamides with examples. Outline the synthesis of Trimethoprim and Sulphamethoxazole.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Write a note on beta lactamase inhibitors.
5. What are aminoglycosides? Write the mechanism of action and chemistry of aminoglycosides antibiotics.
6. Write the SAR of 7-chloro 4-amino quinolines.
7. Write the chemistry and of Erythromycin.
8. What are first line anti-tubercular drugs? Write the structure of any two anti- tubercular drugs. Give the synthesis of para amino salicylic acid.
9. What are antiviral agents? Classify them with suitable examples.
10. Add a note on synthetic antifungal agents. Give the synthesis of Tolnaftate.
11. Define and classify anthelmintics. Write the synthesis of Diethyl carbamazine citrate.
12. Explain the modern concept of rational drug design.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Write the structure and uses of Ampicillin.
14. Write the structure and uses of Chloramphenicol.
15. Give the synthesis of Isoniazid.
16. Outline the synthesis of Nitrofurantoin.
17. Give the structure and uses of any one antiviral drug.
18. Define anti-tubercular agents? Name the causative organism for tuberculosis.
19. List out antifungal agents having imidazole nucleus.
20. What are antiprotozoal agents? Give the structure and uses of Ornidazole.
21. Give the synthesis of Mebendazole.
22. Mention the electronic parameters used in QSAR.
