

Rajiv Gandhi University of Health Sciences, Karnataka
III Year Pharm-D Degree Examination – 19-Nov-2021

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL CHEMISTRY (RS & RS2)

Q.P. CODE: 2865

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. Define antibiotics? Classify Cephalosporins with examples. Write the structure and uses any two Cephalosporins. Discuss the MOA and therapeutic uses of Macrolide antibiotics.
2. Classify anti-arrhythmic and antihypertensive agents? Explain the MOA of angiotension receptor blockers. Write the structure and uses of Losartan.
3. a. Give the mechanism of action of sulphonamides. Write the structure and uses of Phthalyl sulphathiazole and Sulphadiazone.
b. What are anticancer drugs? Give the mechanism of action of Antimetabolites.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Give examples, MOA and clinical uses of Reverse transcriptase inhibitors.
5. Classify anthelmintics with examples. Give the synthesis of Albendazole.
6. Write the structure and uses of p-amino salicylic acid, Isoniazid, Ethambutol and Pyrazinamide.
7. What is crystalluria? How it could be prevented.
8. Write a note on the use of Artemisinin and its derivatives as antimalarial drugs.
9. Outline the synthesis, MOA and uses of 1) Methotrexate 2) 5-Fluorouracil
10. Write a note on antihyperlipidemic agents.
11. How malaria is caused? Classify antimalarial agents.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Mention the steric parameters used in QSAR.
13. What is prodrug? Give examples.
14. Name any two calcium channel blockers with their uses.
15. Write the structure and uses of Glibenclamide.
16. Give the synthesis of Proparacaine.
17. Define hormones and classify them on the basis of source.
18. What are potassium sparing diuretics? Give examples.
19. What are high cholesterol levels? Give examples.
20. Name any two drugs used for examination of Liver function.
21. What are steroids? Give any one drug containing Pregnane nucleus.