

-Rajiv Gandhi University of Health Sciences, Karnataka
III Year Pharm-D Degree Examination – 11-Nov-2023

Time: Three Hours

Max. Marks: 70

MEDICINAL CHEMISTRY (RS & RS-2)

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. **Classify antitubercular drugs; give MOA and synthesis of INH and Ethambutol.**
2. Define antibiotic. Classify with suitable examples. Write the MOA of penicillins and tetracyclines
3. Define and classify antihypertensive agent with suitable examples. Explain MOA of ACE inhibitor. Outline the synthesis of clonidine

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Classify anti-hyperlipidemic agents with examples
5. Give the MOA of Nitro vasodilators and structure and uses of Isosorbide dinitrate and nitroglycerine
6. Explain the MOA of sulfonamides. Write the structure and uses of Sulfapyridine and Sulfacetamide
7. Classify local anti-infective agents and give synthesis of Furazolidone
8. Write the synthesis of Ciprofloxacin and Miconazole
9. What are anticancer drug? Give the MOA of antimetabolites
10. Discuss the SAR of tetracyclines
11. Classify antimalarial agents. Outline the synthesis of Chloroquine

SHORT ANSWERS

10 x 2 = 20 Marks

12. Outline the synthesis of Metronidazole
13. What are high ceiling diuretics? Give examples
14. What are antifungal antibiotics?
15. Give the structure and uses of Amantadine and Idoxuridine
16. Give the structures of any two carrier linked prodrugs
17. Write the synthesis of warfarin
18. Define Hyperglycemia. Name any two biguanides used in the treatment of diabetes
19. Name any two dyes used as diagnostic agents
20. **What are Adrenocorticoids? Give examples**
21. Mention the applications of CADD
