

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – 11-Dec-2020

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 them with examples. Discuss the chemistry and mechanism of action of aminoglycoside antibiotics
2. What are cardiovascular drugs? Classify them with examples. Give the synthesis of Warfarin
3. a) Explain the SAR of Sulfonamides. Give the synthesis of Dapsone.
b) Write the synthesis of Chlorambucil and Methotrexate.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Add a note on synthetic antifungal agents. Give the synthesis of Tolnaftate
5. What is multi drug resistant TB? How it is treated?
6. What is crystalluria? How it could be prevented
7. How malaria is caused? Classify antimalarial agents.
8. What are anticancer drugs? Give the mechanism of action of antimetabolites
9. Give the structure and uses of the following a) Captopril b) Methyldopa c) Phenytoin
10. What are anthelmintics? Write the synthesis of Thiabendazole and Albendazole.
11. What are antiviral drugs? Classify them with suitable examples.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Mention the electronic parameters used in QSAR studies
13. Give the structures of two carrier linked prodrugs
14. What are antianginal agents give examples
15. Give the MOA of sulphonylureas
16. Write the structure and uses of Metformin
17. Classify antithyroid drugs with examples
18. Write the structure and uses of Hydrochlorothiazide
19. What are potassium sparing diuretics give examples
20. Name any two drugs used for examination of ophthalmic diagnostic aid.
21. Classify steroidal drugs with examples
