

Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – JUNE-2019

Max. Marks: 70 Marks

Time: Three Hours

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. What are beta lactum antibiotics? Give the degradation products of penicillins. Write a note on beta lactamase inhibitors
2. Classify antihypertensive agents? Explain the MOA of ACE inhibitors. Write the synthesis and uses of Warfarin
3. a) Write the synthesis of sulfisoxazole and Trimethoprim.
b) Classify antimalarial agents with examples. Outline the synthesis of Chloroquine.

SHORT ESSAYS (answer any six)

6 x 5 = 30 Marks

4. Add a note on synthetic antifungal agents. Give the synthesis of Tolnaftate
5. Name any four antiamoebic drugs. Give the synthesis of Metronidazole
6. Discuss the SAR of sulfonamides
7. Write the SAR of quinoline analogues of antimalarials
8. What are antineoplastic agents? Discuss the mechanism of action of alkylating agents
9. Define and classify lipid lowering agents. Explain the MOA of HMG coA reductase inhibitors
10. What are anthelmintics? Write the synthesis of Thiabendazole and Albendazole.
11. What are antiviral drugs? Classify them with examples.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Enumerate the applications of QSAR
13. What is prodrug? Give examples
14. Write the structure and uses of Propranolol
15. Give the synthesis of chlorpropamide
16. Write the structure and uses of Rosiglitazone
17. What are hormones? How are they classified chemically? Name any two hormones secreted by thyroid gland.
18. Write the structure and uses of Amiloride
19. What are high ceiling diuretics? Give examples
20. What are diagnostic agents? Give a brief account of radio opaque
21. What are steroids? Name any one drug containing Estrane nuclei
