

Rajiv Gandhi University of Health Sciences, Karnataka
III Year Pharm-D Degree Examination – MAY 2016

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL CHEMISTRY

Q.P. CODE: 2865

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. Discuss in detail combinatorial chemistry or quantitative structure activity relationship.
2. What are diuretics? Classify them with examples. Add a brief note on loop diuretics and give synthesis of Furosemide.
3. Define and classify antimalarial agents with examples. Outline the synthesis of Primaquine

SHORT ESSAYS

6 x 5 = 30 Marks

4. Write a note on thyroid hormones.
5. Discuss in brief antihyperlipidemic agents.
6. Name any four drugs used in treatment of tuberculosis. Write the synthesis of Isoniazid.
7. Give a brief note on urinary tract antiinfectives.
8. Give structure activity relationships of sulfonamides. Write synthesis of any one sulfonamide drugs.
9. Name any four anthelmintics. Give the synthesis of Mebendazole.
10. Write a note on SAR of tetracyclines.
11. Discuss the antimetabolites and plant products used in the treatment of cancer.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the chemical structure of two antihypertensive agents.
13. Give the synthesis of Tolnaftate.
14. Write the structure and uses of Propylparaben.
15. Give chemical structure of two dyes.
16. Structure and uses of acyclovir
17. Give the structure and uses of Isosorbide dinitrate
18. Applications of prodrugs
19. Give four example of diagnostic agents
20. Endocrine agents
21. Give structure and uses of any two Cephalosporins
