

Rajiv Gandhi University of Health Sciences, Karnataka

Fifth Semester B. Pharm Degree Examination – 02-Jan-2020

Time: Three Hours**Max. Marks: 75 Marks****MEDICINAL CHEMISTRY - II****Q.P. CODE: 5018**

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 antineoplastic agents with example. Outline the synthesis of Mercaptopurine and Methotrexate.
2. Classify antihypertensive agents with examples? Write the MOA of Calcium channels blockers and give the synthesis of Isosorbide dinitrate.
3. Classify local anaesthetic agents and discuss SAR of Benzoic acid and Anilide class of local anaesthetic agents with suitable examples.

SHORT ESSAYS (Answer any Seven)**7 x 5 = 35 Marks**

4. Explain in detail about histamine receptors and their biological importance.
5. What are potassium sparing diuretics? Outline the synthesis and medicinal uses of Chlorthalidone.
6. Write a note on cardiac glycosides used in the treatment of Congestive Heart Failure.
7. What are lipid lowering agents? Give the structure and uses of Lovastatin, Clofibrate and Cholestyramine.
8. Classify antiarrhythmic agents with examples? Give the synthesis of Disopyramide.
9. Discuss about the medicinal importance of Corticosteroids and give the structures and uses of any two Corticosteroids.
10. Describe the chemistry of oral contraceptives.
11. Write a note on antithyroid drugs and give the structure and uses of any two.
12. What are hypoglycemic agents? Discuss about Glucosidase inhibitors as antidiabetic agents.

SHORT ANSWERS (Answer All)**10 x 2 = 20 Marks**

13. Write the structure and uses of any two aminoalkyl ether derivatives as antihistaminic agents.
14. Write the structure and uses of any two H₂ antagonists.
15. Explain mechanism of action of gastric proton pump inhibitors.
16. Write briefly about nitro vasodilators.
17. Discuss the mechanism of action of Acetazolamide.
18. Outline the synthesis of furosemide.
19. Write the structure and uses of any two anticoagulants.
20. Outline the synthesis of Warfarin.
21. Write the structure and uses of synthetic estrogens.
22. Write the structure and uses of Meglitinide and chlorpropamide.
