

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 01-Dec-2020

Max. Marks: 75 Marks

Time: Three Hours

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. What are antineoplastic agents? Classify them with example? Discuss the mechanism of action of alkylating agents. Outline the synthesis of Mechlorethamine.
2. Define and Classify antihypertensive agents? Explain the MOA of Angiotensin Receptor Blockers. Write the synthesis of Methyl Dopa.
3. Define and classify local anaesthetic agents with examples. Explain the SAR of local anaesthetic agents.

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

1. Define and Classify antihistaminic agents with examples? Give the synthesis and uses of Promethazine.
5. What are carbonic anhydrase inhibitors? Outline the synthesis and medicinal uses of Acetazolamide.
6. Define and Classify antiarrhythmic agents with examples? Give their Medicinal uses.
7. What are antihyperlipidemic agents? Explain their mechanism of action. Write the structure and uses of Clofibrate and Lovastatin.
8. What are anticoagulants? Give the mechanism of action and synthesis of Warfarin.
9. Write a note on metabolism of Steroids.
10. Discuss about the drugs used for erectile dysfunction.
11. What are estrogens? Discuss about synthetic estrogens.
12. Define the term hypoglycemic agents. Give the structure of any two sulfonylureas and outline the synthesis of Tolbutamide.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

3. Write the structure and uses of any two H₂ antagonists
14. Give the structure and uses of Azathioprine and Cisplatin
15. Write the structure and uses of triprolidine and chlorpheniramine
16. What are potassium sparing diuretics? Give the structure of furosemide.
17. Write briefly about nitro vasodilators.
18. Write the structure and use of minoxidil and guanethidine.
19. Write a note on drugs used in Congestive Heart Failure.
20. Write the structure and use of Menadione and Cholesteramine
21. Give the structure and uses of thyroid hormones.
22. Write the structure and uses of Pioglitazone and Metformin.
