

Rajiv Gandhi University of Health Sciences, Karnataka

Fifth Semester B. Pharm Degree Examination – 29-May-2023

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.

All the Questions are compulsory

2 x 10 = 20 Marks

LONG ESSAYS

1. Define and Classify Antihistaminic agents with examples. Outline the method for synthesis of Diphenhydramine and Promethazine.

OR

1. Define and classify Diuretics with structural examples? Explain the mechanism of action of carbonic anhydrase inhibitors and give the synthesis of Furosemide.
2. Classify local anaesthetic agents and explain their mechanism of action. Write the synthesis and uses of procaine and Dibucaine.

7 x 5 = 35 Marks

SHORT ESSAYS

3. What are H₂ receptor antagonist? Give the synthesis of Cimetidine.

OR

3. Define angina pectoris? Write the MOA of Antianginal agents? Write the structure and uses of nitroglycerine and Benazepril.
 4. Write the structure and uses of drugs used in Congestive Heart Failure.
- OR
4. Classify antiarrhythmic agents with examples? Outline the synthesis of Disopyramide.
 5. What are anticoagulants? Classify with examples and outline the synthesis of Warfarin.
 6. Discuss about the medicinal importance of Corticosteroids and give the structures of any two Corticosteroids.
 7. Discuss the chemistry of oral contraceptives.
 8. What is hyperthyroidism? Give their clinical significance and write the structure and uses of any two of them.
 9. Classify antidiabetic agents with examples. Give the synthesis of Tolbutamide.

10 x 2 = 20 Marks

SHORT ANSWERS

10. Discuss the mechanism of action of anticancer alkylating agents.
11. List the names and uses of anticancer antibiotics.
12. What are gastric pump inhibitors and write any one structure.
13. Write the synthesis of isosorbide dinitrate.
14. What are Calcium channel blockers any one structure.
15. Write the structure and use of Guanethidine and Minoxidil.
16. Write the structure of any two anti hyperlipidemic agents.
17. Write the structure and uses of Amiodarone and Sotalol.
18. Write the structures and uses of synthetic estrogens.
19. Write a note on Insulin and its derivatives.