

Rajiv Gandhi University of Health Sciences, Karnataka
Fifth Semester B. Pharm Degree Examination – 18-Jun-2022

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
All the questions are compulsory

2 x 10 = 20 Marks

LONG ESSAYS

1. What are diuretics? Classify them with examples. Write the SAR of thiazide diuretics
OR
Explain the types of Calcium Channels and Write the mechanism of action of Calcium Channel Blockers
2. Discuss the chemistry of male and female sex hormones

7 x 5 = 35 Marks

SHORT ESSAYS

3. Write a note on gastric proton pump inhibitors
OR
Discuss the SAR of phenothiazine derivatives as antihistamines
4. Write the SAR of steroidal anti-inflammatory agents
OR
Write a note on thyroid and anti thyroid agents
5. What are anti-coagulants? Write the synthesis and mechanism of action of Warfarin
6. Explain the SAR of amino benzoic acid derivatives as local anesthetics
7. Write a note on anti-neoplastic antibiotics
8. **Give the synthetic route and uses of Dibucaine and Methotrexate**
9. Explain the chemistry of piperazine class of anti-histamines

10 x 2 = 20 Marks

SHORT ANSWERS

10. How cyclophosphamide is activated after its administration?
11. Write the synthesis and medicinal uses of Promethazine
12. **Write the structure and uses of Butaxaine**
13. Sketch the synthetic route for Benzocaine
14. What are steroids? Give examples
15. Write mechanism of action of 6-thioguanine
16. Write the structure and mechanism of action of cholestipol
17. Write the structure and uses of Sildenafil and Ethacrynic acid
18. What are Beta blockers? Give any one structure of them
19. Write the structure and mechanism of action of Nesiritide
