

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – May 2017

Time: Three Hours

Max. Marks: 80 Marks

MEDICINAL CHEMISTRY - I (Revised Scheme - 2)

Q.P. CODE: 1961

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 Adrenergic drugs? Classify them with suitable examples. Outline the synthesis of any two adrenergic drugs
2. What are Anticonvulsants? Classify anticonvulsants with examples. Give the synthesis of Clonazepam and Trimethadione
3. Define Anti inflammatory agents. Classify non steroidal anti inflammatory agents giving at least one structural example for each class. Outline the synthesis of Oxyphenylbutazone

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Classify Local anaesthetics. Give the SAR of Benzoic acid derivatives
5. Write the biosynthesis of Eicosanoids and give their clinical uses
6. Write a note on Antitussive agents with suitable examples
7. Explain how optical and geometrical isomerism can be correlated to its biological activity?
8. What are Barbiturates? Classify Barbiturates with examples. Write the structure of
a) Amobarbital b) Pentobarbital
9. Write a note on Anti allergic agents with suitable examples
10. Classify Cholinergic agents. Write the metabolism of acetylcholine
11. Write the structure and uses of the following drugs:
a) Ketamine HCl b) Glutethimide c) Xylocaine d) Cimetidine e) Acetaminophen
12. Explain the role of cytochrome P-450 mono-oxygenase with suitable examples
13. Outline the synthesis of methqualone and glutethimide

SHORT ANSWERS

10 x 2 = 20 Marks

14. Give the synthesis of Carbamazepine
15. Define Narcotic antagonist and write one structure
16. Write the structure and use of d-Tubocurarine chloride
17. Write any two factors affecting drug metabolism
18. Name and write the basic heterocyclic nucleus present in Chlorodiazepoxide
19. What are Local Anaesthetics? Give an example.
20. Outline the synthesis of Meclizine
21. Name any two drugs used as Mydriatic agents
22. Write the structure and use of Baclofen
23. Classify adrenergic receptors