

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL CHEMISTRY - I (Revised Scheme 3)

Q.P. CODE: 2611

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Define and classify local anesthetics, explain their structural activity relationships. Outline the synthesis of halothane
2. Briefly discuss on various physiochemical parameters in relation to biological activity
3. What are anticonvulsants, classify with examples. Explain their structural activity relationships. Outline the synthesis of methsuximide

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. What are general anesthetics? How do they differ from local anesthetics? Give the synthesis of methohexital sodium
5. What are H₁ receptor blockers? Classify with examples
6. Write the structure and uses of any four β_1 adrenergic blocking agents
7. Outline the synthesis and uses of pentobarbital and chlordiazepoxide
8. Give an account of chemistry and biological activity of cholinergic agents
9. Give the classification of NSAIDs with examples
10. Write a note on reversible cholinesterase inhibitors
11. Explain the nuclear modifications of morphine

SHORT ANSWERS

10 x 2 = 20 Marks

12. Classify barbiturates with examples
13. Narcotic analgesics
14. Skeletal muscle relaxants
15. H₂ receptor antagonist
16. Neuromuscular blocking agents
17. Structure and uses of cyclopentamine and meprobamate
18. Synthesis of naphazoline
19. Structure and uses of any two prostaglandins
20. Narcotic antagonist
21. Ganglionic blocking agents