

Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Pharm Degree Examination – August 2010

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. What are Sympathomimetic agents? Discuss their classification and SAR. Give the synthesis of Naphazoline
2. Define Antihistamines. Classify them with examples. Discuss their SAR and give the synthesis of Promethazine
3. What are Narcotic Analgesics? Discuss the SAR of Morphine in detail

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Discuss the role of bio-isosterism in drug design
5. Discuss the role of Cytochrome P-450 in Oxidative Biotransformations
6. Give the synthesis and uses of Mefenamic acid and Ibuprofen
7. Write a note on Parenteral anesthetics
8. Write a detailed note on adrenergic receptors
9. Discuss the structural similarities among various classes of Anticonvulsants
10. Discuss the SAR of Benzodiazepines
11. Write a note on Amino Benzoic Acid derivatives

SHORT ANSWERS

10 x 2 = 20 Marks

12. Narcotic antagonists
13. Factors affecting drug metabolism
14. Drugs used in Parkinsonism
15. Ultra short acting Barbiturates
16. Drugs used in spasticity
17. Therapeutic uses of Beta blockers
18. H₂ antagonists
19. Synthesis of Propranolol
20. Structure and uses of any two anti-inflammatory analgesics
21. Clinically useful prostaglandins
