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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination - Aug / Sep 2011

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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Classify anticonvulsants with examples and give their mechanism of action. Write briefly on Hydantoins and Oxazolidine diones giving their therapeutic applications
- 2. Define and classify antihistamines with examples in each class. Discuss the mode of action and SAR of H_1 -antagonists
- 3. How can you differentiate alpha and beta blockers? Give the structures and uses of any four beta blocking agents. Give the synthesis of propranolol

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Describe the factors that affect drug metabolism
- 5. Discuss benzodiazepine derivatives as useful anxiolytics
- 6. What are Eicosanoids? Write briefly on Eicosanoid drugs
- 7. Define local anaesthetics. Outline the method of synthesis of Benzocaine and Lidocaine
- 8. Give an account of pyrazoline and pyrazolidine dione derivatives of medicinal importance
- 9. Write briefly on Ergot alkaloids
- 10. Explain the stereochemistry and synthesis of ephedrine
- 11. Write the structures of any three Cholinesterase inhibitors. Give the uses and synthesis of any one of them
- 12. Explain the relationship between biological action and hydrogen bonding
- 13. Write the structures of any four narcotic anatagonists and mention their applications

SHORT ANSWERS $10 \times 2 = 20 \text{ Marks}$

- 14. Write the structures of any two antitussive agents
- 15. Give the synthesis and uses of chloralhydrate
- 16. Write the structures of any two skeletal muscle relaxants
- 17. Write on biological significance of prostaglandins
- 18. Give the structure and uses of Diphenhydramine
- 19. Give the synthesis of phenacetin
- 20. Give the structure and uses of any two short acting barbiturates
- 21. Write a note on Solanaceous alkaloids
- 22. Write the structure and uses of ibuprofen and piroxicam
- 23. Write briefly on ganglionic blocking agents