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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: 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)

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

- 1. Define antihistaminics. Classify with examples. Explain the structural activity relationships of  $H_1$  receptor blockers
- 2. Briefly discuss on various physicochemical parameters in relation to biological activity
- 3. What are anticonvulsants, classify with examples. Explain the structural activity relationships of benzodiazepines

## **SHORT ESSAYS (Answer any Six)**

 $6 \times 5 = 30 \text{ Marks}$ 

- 4. What are general anesthetics? Give its classification and outline the synthesis of halothane
- 5. Explain phase I and phase II biotransformation
- 6. Outline the synthesis and uses of Phenobarbital and diazepam
- 7. Give an account of chemistry and biological activity of adrenergic blocking agents
- 8. Add a note on irreversible cholinesterase inhibitors
- 9. Explain the nuclear modification of morphine with example
- 10. Outline the synthesis and uses of acetaminophen and ibuprofen
- 11. Give the classification of NSAIDs with examples. Outline the synthesis of mefenamic acid

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

- 12. Structure and biological activity of cholinergic neurotransmitter
- 13. Drugs used in spasticity
- 14. Antitussive agents
- 15. H<sub>2</sub> receptor antagonist
- 16. Local anesthetics
- 17. Structure and uses of thiopental sodium and methohexital sodium
- 18. Ganglionic blocking agents
- 19. Aryl acetic acid derivatives
- 20. Structure and uses of any two prostaglandins
- 21. Salicylic acid derivatives