

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination - 04-Jan-2020

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. What are analgesics? Classify analgesics with examples. Outline the synthesis of piroxicam and Oxyphenbutazone.
- 2. Illustrate with examples adrenergic blocking agents. Write the synthesis of Phentolamine & Propranolol.
- 3. Discuss how the following physicochemical properties influence the biological activity a) Solubility b) Protein binding c) Redox potential d) Surface activity.

SHORT ESSAYS (Answer any Six)

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

- 4. Outline the synthesis and uses of Glutethimide and Chloralhydrate.
- 5. Outline the synthesis and uses of Clonazepam and Phenobarbitone.
- 6. Write the structure and uses of the following compounds? a) Ranitidine b) Omeprazole c) Practolol.
- 7. Write the structure and uses of any five cholinergic blocking agents.
- 8. What are general anaesthetics? Give its classification. Write a note on dissociative anaesthetics
- 9. Write the SAR of Barbiturates as Sedatives & Hypnotics.
- 10. What are Eicosanoids? Give some examples.
- 11. Write a note on reversible cholinesterase inhibitors.

SHORT ANSWERS

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

- 12. Outline the synthesis of Diphenhydramine HCl.
- 13. What is Glycine conjugation reaction in drug metabolism & give one example?
- 14. Write the structure and use of Carbamazepine and Methohexital Sodium.
- 15. Outline the synthesis of Chlorphensin.
- 16. Drugs used in spasticity.
- 17. Outline the synthesis of Naphazoline.
- 18. Write in brief about cholinergic receptors.
- 19. Structure and uses of Cyclopentamine and Meprobomate.
- 20. Write the structure of any two Narcotic Antagonists.
- 21. Synthesis of Procaine.
