

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – DEC-2018

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 general anesthetics? Classify them with examples. Add a note on ultra short acting barbiturates & dissociative anaesthetics.
2. What are sympathomimetic agents and discuss their classification and SAR. Give the synthesis of Naphazoline.
3. Define Antihistamines, classify them with examples. Discuss their SAR and give the synthesis of promethazine.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Explain phase I drug metabolism with examples.
5. Explain the structural activity relationship of benzoic acid derivatives as local anesthetics.
6. What are anticonvulsants, classify them with examples, outline the synthesis of carbamazepine.
7. Classify cholinergic blocking agents with examples. Give the synthesis of Dicyclomine.
8. What are adrenergic blocking agents classify and write the synthesis of phentolamine.
9. Write the Bio synthetic pathway of eicosanoids.
10. Discuss the SAR of Benzodiazepines.
11. Discuss the role of hydrogen bonding in drug design.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Drug used in spasticity.
13. H₂ receptors antagonists.
14. Factors effecting drug metabolism
15. Clinically useful prostaglandins.
16. Skeletal muscle relaxants.
17. Synthesis of Oxyphenbutazone.
18. Synthesis of Phenobarbitone.
19. Structure and uses of Codeine and Nalorphine.
20. Structure and uses of Noscapine and Chlordiazepoxide.
21. Name the conjugation reactions involved in Phase-II metabolism.
