

Supply

Rajiv Gandhi University of Health Sciences, Karnataka
Fourth Semester B. Pharm Degree Examination – 03-May-2025

Time: Three Hours

Max. Marks: 75

Medicinal Chemistry - I

Q.P. CODE: 5014

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the Questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. What is drug biotransformation? Explain the role of Cyt-P450 in drug metabolism. Discuss glucuronidation

OR

2. Discuss the SAR of benzodiazepines. Give the synthesis of diazepam
Classify antipsychotics with structures. Explain the SAR of Phenothiazines

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the synthesis of propranolol and Tolazoline

OR

Explain the role of optical and geometrical isomerism in drug action

4. Write the biosynthesis and catabolism of catecholamines

OR

Write a note on reversible cholinesterase inhibitors

5. Discuss the SAR of anticonvulsants
6. Classify general anaesthetics with examples
7. What are narcotic antagonists? Write their structures and clinical significance
8. Write the role of solubility in drug action
9. Write a note on solanaceous alkaloids

SHORT ANSWERS

10 x 2 = 20 Marks

10. Name the cholinergic receptors
11. Write the synthetic route for neostigmine
12. Explain the biosynthesis of acetyl choline
13. Sketch the synthetic route for tolazoline
14. Classify adrenergic agents with examples
15. How ketamine is synthesized?
16. Write the structure and uses of glutethimide
17. Write the structure and mechanism of action of Loxapine
18. Write the structures of triclofos sodium and paraldehyde
19. Write the structure and IUPAC name for meprobamate
