

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – DEC-2018

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 x 10 = 20 Marks

1. Explain how the solubility, Hydrogen bonding, protein binding and surface activity influence on the biological activity.
2. Define and classify hypnotics and sedative with examples. Explain the SAR of benzodiazepine derivatives. Outline the Synthesis of Diazepam and Chlordiazepoxide.
3. Classify Antihistaminic agents with examples. Outline the method for synthesis of Diphenhydramine Hydrochloride and Promethazine.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain the role of P-450 cytochrome mono-oxygenase in oxidative biotransformations.
5. Define and classify General Anaesthetics with suitable examples.
6. What are Ganglionic blocking agents? Give examples with their uses.
7. Classify NSAID with examples. Write the Synthetic step of mefenamic acid.
8. Write the structure and uses of any four β -Adrenergic Blocking Agents.
9. Write a note on reversible cholinesterase inhibitors.
10. Define and classify local anaesthetics with examples.
11. Write the structures and uses of any four prostaglandins.
12. What are Cholinergic blocking agents? Classify them with suitable examples. Write the Synthesis of dicyclomine.
13. What is Epilepsy? Write the synthesis and uses of carbamazepine.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Write any two structure and uses Narcotic Analgesics.
15. Drugs used in spasticity
16. Outline the Synthesis of Propranolol
17. H_2 receptor antagonists
18. Write structure and uses of any two antitussive agents.
19. Skeletal muscle relaxants
20. Name any two β -receptor Agonists and give their structures.
21. Write the structure and uses of phenytoin sodium and Clonazepam.
22. Dissociative anaesthetics
23. What are Neuromuscular blocking agents give examples.
