

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B. Pharm Degree Examination – 14-Jan-2020

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL ORGANIC CHEMISTRY - II

(Revised Scheme 3)

Q.P. CODE: 2610

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. What are conformers? Discuss in detail the stereochemistry of cyclohexane.
2. How will you convert the following?
 - a. Aldopentose into Aldohexose
 - b. Aldose into its corresponding ketose.
3. Classify proteins with examples. Describe the synthesis of Amino acids.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Write the structure of Naphthalene and discuss its reactions.
5. Give the methods of synthesis and reactions of Pyrrole.
6. Give the reaction and mechanism of Fischer-Indole synthesis.
7. Write the structure of heterocyclic nucleus present in the following drugs.
 - a. Nikethamide
 - b. Metronidazole
 - c. Diazepam
 - d. Chloroquine
 - e. Sulphadiazine
8. Write a note on derivatives of cellulose.
9. Explain about stereochemistry of biphenyl compounds.
10. Give any two methods of synthesis and two reactions of Phenanthrene.
11. Write the structure and uses of any four drugs containing six membered heterocyclic compounds.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is Chirality?
13. What is rancidity? Give classification.
14. Give the structure and uses of Propranolol.
15. Outline the Chichibabin reaction.
16. What are 'Syn' and 'Anti' elimination reactions?
17. What is Peptide linkage? Give its structure.
18. Define Epimers with examples.
19. What happens when Furfural is treated with aqueous NaOH solution? Name the reaction.
20. Give the reduction products of Pyridine and Pyrrole.
21. Define optical isomers and give an example.
