

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B. Pharm Degree Examination – JAN-2019

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 heterocyclic compounds? Classify them with examples and add a note on aromaticity of heterocyclic compounds.
2. What are essential Amino acids? Classify them with examples. Describe the reactions of Amino acids.
3. What are oils and fats? Give the classification of oils with examples. Enlist the analytical constants of fats and oils with their significance.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Give two methods of synthesis and two reactions of naphthalene.
5. Write a note on Asymmetric synthesis.
6. Give the structure and uses of the following:
 - a. Diazepam
 - b. Morphine
 - c. Nikethamide
7. Discuss the chemistry of Oximes.
8. Explain the Fischer – Kiliani's reaction of converting aldopentose to aldohexose.
9. What are the stereo selective and stereo specific reactions?
10. Compare the aromaticity of Pyrrole, Thiophene and Furan.
11. What are Peptides? Describe a method for their synthesis.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is isoelectric point? Give its significance.
13. Define epimers with examples.
14. Define chirality and meso structures.
15. Give the oxidation reactions of naphthalene.
16. Explain 'E' and 'Z' system of nomenclature.
17. Give the conversion of Furan to Furoic acid.
18. What are optical isomers? Give examples.
19. Draw the cis and trans isomers of 2-Butene.
20. What are non-reducing sugars? Give example.
21. Define the term configuration. Draw S-Bromochlorofluoromethane.
