

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – Aug / Sep 2011

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. Explain about elements of Symmetry with suitable examples
2. Give the mechanisms of
(A) Skraup's Synthesis of Quinoline (B) Fischer's Indole Synthesis
3. Describe the stereochemistry of biphenyls and alicyclic compounds

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. What are essential amino acids? Give the strecker's synthesis
5. Explain about mutarotation of glucose
6. Define iodine value. Explain any one method for determining iodine value
7. Discuss about determination of 'C' terminal amino acids in peptides
8. Give the Haworth Synthesis of Naphthalene and give its two chemical reactions
9. Explain the aromaticity of Pyrrole
10. Give the structure and uses of the following:
(A) Chloroquine (B) Isoniazid (C) Tolnaftate
11. Discuss the chemistry of sucrose

SHORT ANSWERS

10 x 2 = 20 Marks

12. Give two differences between S_N1 and S_N2 reactions
13. What are Aldoximes? How are they named
14. Give the structure and use of diazepam
15. Which is more basic of the following and why? Pyrrole and Pyridine
16. How do you convert phenanthrene into 9-chlorophenanthrene
17. Why oils are liquid and fats are solids at room temperature
18. Define acid value. Give its significance
19. Give the structure and use of codeine
20. What are Diastereoisomers? Give examples
21. What is peptide Linkage? Give its structure
