

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Mar 2013

Time: Three Hours**Max. Marks: 80 Marks**

PHARMACEUTICAL ORGANIC CHEMISTRY - II

(Revised Scheme - 2)

Q.P. CODE: 1960

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 Geometrical isomers? Explain the nomenclature of geometrical isomers with examples. Add a note on determination of configuration in geometrical isomers
2. Give the synthesis and reactions of (a) Oxazole (b) Imidazole
3. Explain about various analysis of oils and fats

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. Discuss about stereo – selective reactions with a suitable examples
5. What are peptides? Give a method for their synthesis
6. Write a note on mutarotation
7. Name the elements of symmetry. Explain them with examples.
8. Give the structure and uses of the following:
(A) Benzhexol (B) Codeine (C) Histamine
9. Explain the sequence rules used in determination of configurations
10. Give the mechanism of Fischer's Indole synthesis
11. Classify polynuclear hydrocarbons giving examples. Give the structure of tolnaftate.
12. Explain about stereochemistry of Oximes
13. Give any two synthesis and two chemical reaction of Imidazole

SHORT ANSWERS**10 x 2 = 20 Marks**

14. What are reducing and non – reducing sugars
15. Give the structure and use of metronidazole
16. Give the structure and use of carbimazole
17. How many hydroxyl groups are present in glucose? How you prove it
18. Give the Haworth's synthesis of Naphthalene
19. Give Fischer projection formulae of 2-bromo – 3- chlorobutane
20. What are essential amino acids? Give two examples
21. What do you mean by Syn-and Anti-elimination reactions
22. Give killiani synthesis of glucose
23. Give the Knorr synthesis of Pyrrole.
