www.FirstRanker.com

tmp.doc

Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Pharm Degree Examination – August 2010

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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define optical activity. Explain elements of symmetry with examples
- 2. Define carbohydrates. Classify them with examples and establish the open chain structure of glucose
- 3. Give any two method of synthesis, reactions and their medicinally important compounds with uses of a) Naphthalene b) Anthracene

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- Explain R & S configuration. Give their sequence rules with examples
- 5. Give reaction and mechanism of Fischer indole synthesis
- 6. Describe the electrophilic substitution reaction and its orientation in pyrrole
- 7. Give two synthesis of Imidazole and Pyrazole
- 8. Define and classify proteins in detail with examples
- 9. Discuss the chemistry of maltose
- 10. Enlist analytical constants of oils and fats. Describe any one method to determine iodine value with its significance
- 11. Discuss the stereochemistry of Biphenyls

 $10 \times 2 = 20 \text{ Marks}$ **SHORT ANSWERS**

- 12. Define geometrical isomers with example
- 13. Give the structure and uses of Diazepam
- 14. Define the isoelectric point with its significance
- 15. Give structure and uses of any one compound with pyridine nucleus
- 16. Outline the Chichibabin reaction
- 17. Give the pharmaceutical applications of fats and oils
- 18. What are essential amino acids? Give example
- 19. Explain Kiliani synthesis
- 20. Outline the Strecker's synthesis of amino acids
- 21. Complete the following reaction

