

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – NOV 2016

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. Define Optical isomerism, add a note on Elements of Symmetry.
2. Give synthesis and reactions of a) Pyrazole b) Imidazole.
3. What are Amino acids, classify them in detail, give the Strecker synthesis of amino acids.

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

4. Discuss the stereochemistry of SN_1 and SN_2 reactions.
5. Write a note on Rancidity of Oils.
6. Explain the weak acidic and basic nature of pyrrole.
7. Write structure and medicinal uses of
i) Isonizide ii) Propranolol iii) Sulfadiazine iv) Chloroquine.
8. Give the reaction and mechanism of Fischer indole synthesis.
9. What are Polynuclear hydrocarbons, classify with examples. Write structure and uses of Tolnaftate & Codeine.
10. Explain the method to determine the open chain structure of Glucose.
11. Write a note on R & S configuration.
12. Give synthesis and reactions of Naphthalene.
13. Explain the orientation of electrophilic substitution reaction in Furan.

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

14. Define Isoelectric point with its significance.
15. Write structure and medicinal uses of lactose.
16. Write the structure and medicinal uses of Nikethamide and Naphzoline.
17. Write structure and medicinal uses of any one Benzodiazepine derivative.
18. Define saponification value. Give its significance.
19. What are Diastereoisomers give examples.
20. Outline the Skraup synthesis of quinoline.
21. Write structure and medicinal uses of Metronidazole.
22. Write structure of any one saturated and one unsaturated fatty acid.
23. Define with examples, drying and non-drying of oils.
