

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – Sep 2012

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 carbohydrates. Classify them with examples. Establish the cyclic structure of glucose
2. Give synthesis and reactions of a) Naphthalene b) Anthracene
3. What are amino acids? Classify them in detail. Add a note on their properties

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

4. Enlist the methods of resolution of racemic mixtures. Explain with examples the chemical method of resolution
5. Define stereo-selective and stereo-specific reaction with examples
6. How do you convert Glucose to Fructose and vice-versa?
7. Give reaction and mechanism of Skraup's Quinoline synthesis
8. Explain the stereochemistry of Biphenyls
9. Give two syntheses and two reactions of imidazole
10. Define with significance iodine value determination. Explain any one method of its determination
11. Outline the N-terminal determination of Amino acids
12. Compare the basicity of pyridine, pyrrole and ethylamine
13. Discuss the stereochemistry of oximes

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

14. Give the conversion of arabinose to glucose
15. Give structure and uses of nikethamide
16. Define plane polarized light and give its use
17. Give Strecker's synthesis of amino acids
18. Give structure and uses of any one compound of phenanthrene nucleus
19. What is center of symmetry? Give an example
20. Give structure and uses of sulphadiazine
21. What are meso compounds? Give example
22. Give the structure and uses of lactose
23. How fats differ from oils – chemically