

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Aug / Sep 2011

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. Explain Enantiomers and diastereomers with examples. Mention the specifications for R and S configuration.
2. Write two methods of synthesis and chemical reactions of Pyrrole?
3. Classify Carbohydrates with examples. Establish the ring structure of Glucose.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain Geometrical isomerism.
5. Give two methods of synthesis of Indole.
6. Write the structure, chemical name and medicinal use of (a) Isoniazid (b) Chloroquine?
7. Write structure and pharmacological actions of drugs containing Phenothiazine moiety?
8. Write the chemical reactions of Naphthalene?
9. Write the structure systematic chemical name and uses of Propranolol and Menadione.
10. Write the pharmaceutical applications of Cellulose and Starch?
11. What are essential amino acids? Name them.
12. Write two methods of synthesis of amino acids?
13. Explain drying, semidrying and non-drying oils with examples.

SHORT ANSWERS

10 x 2 = 20 Marks

14. What are proteins? Give two examples.
15. Write the principle of saponification value determination.
16. Write the structure of Maltose and Lactose?
17. What are Meso compounds?
18. Write the structure and Medicinal use of Naphazoline?
19. Explain conformational isomerism.
20. Write the structure and medicinal use of Metronidazole?
21. Define oils and fats.
22. Write the mechanism of SN2 reaction?
23. Give the mechanism of E1 reaction.
