

Rajiv Gandhi University of Health Sciences, Karnataka

First year B.Pharm Degree Examination – August 2010

Time: Three Hours

Max. Marks: 80 Marks

PHARMACEUTICAL ORGANIC CHEMISTRY - I (Revised Scheme - 2)

Q.P. CODE: 1954

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 and classify isomerism with suitable examples
2. Give the evidence for E2 mechanism
3. Give one method of preparation and assay of a) Chlorobutol b) Dimercaprol

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain the stereochemistry of SN^1 reaction
5. Define and give the mechanism of peroxide effect
6. Write short notes on allylic rearrangement
7. Explain the stability of conjugated dienes
8. Explain friedel craft's alkylation with its limitations
9. Describe the structure of carboxylate ion
10. Define and give the mechanism of cannizzaro reaction
11. Explain the basicity of amines
12. Give the reactions of diazonium salts
13. Compare aliphatic nucleophilic substitution reaction with that of aromatic nucleophilic substitution

SHORT ANSWERS

10 x 2 = 20 Marks

14. Give structure and uses of saccharin
15. Define benzoin condensation
16. What are free radicals? Give examples
17. Define Lewis bases with examples
18. What are carbocations?
19. Define Vander Waal's forces
20. What is hyperconjugation?
21. Define aldol condensation with example
22. Give one method for preparation of lactic acid
23. Give IUPAC name and structure of acetaldehyde and o-cresol
