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Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Pharm Degree Examination – Aug / Sep 2011

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)

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

- 1. Discuss the dehydrohalogenation of alkylhalides with its mechanism. Comment on the stability of alkenes.
- 2. Explain: (a) Perkin's condensation (b) Allylic rearrangement
- 3. Define and classify isomerism with suitable example

SHORT ESSAYS (Answer any Eight)

 $8 \times 5 = 40 \text{ Marks}$

- 4. Define and give the mechanism of peroxide effect
- 5. Explain the acidity of carboxylic acids and add a note on effect of substitutions
- 6. Give the replacement reaction of diazonium salts
- 7. Outline the synthesis of dimercaprol and tartaric acid and mention their uses
- 8. Explain Keto Enol tautomerism with exmples
- 9. Explain the stability of conjugated dienes
- 10. Outline the synthesis of Glyceryl tri nitrate. Indicate its medicinal uses
- 11. Write the rules of nomenclature of alkane and alkene by taking an example
- 12. Discuss the mechanism of nitration of benzene
- 13. Explain the mechanism of claisen condensation

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

- 14. Draw the different conformation of 1, 2 dichloroethane
- 15. Carbon dioxide has dipole moment zero, while water has dipole moment 1.84D. explain
- 16. Explain why phenols is acidic while alcohols are neutral
- 17. Explain Huckle rule
- 18. What is Tollen's reagent? Give its use in laboratory
- 19. Give reason why benzene is more reactive than nitrobenzene and less reactive than to toluene
- 20. Hyperconjugation
- 21. Give the medicinal uses of : (a) Benzyl benzoate (b) Chlorbutol
- 22. What are electrophiles? Give two examples
- 23. Outline the conversion of Aniline to Benzoic acid