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

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 mechanism, orientation and reactivity of electrophillic addition reactions of alkenes
- 2. Give the mechanism of E_1 and E_2 reactions. Discuss the dehydration and oxidation of alcohols
- 3. Define and give mechanism of a) Aldol Condensation b) Reformatsky reaction

SHORT ESSAYS (Answer any Eight)

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

- 4. Explain ionization of carboxylic acid and acidity constant
- 5. What is markonikovs rule? Give an account on different reaction involving markonikovs addition
- 6. Explain diazotization reaction with mechanism
- 7. Give one method each for conversion of carboxylic acids into acid chloride, ester and anhydride
- 8. Describe Friedel Crafts Acylation reaction with mechanism
- 9. Explain the effect of halogen on aromatic compounds
- 10. Explain the mechanism and stereochemistry of SN₁ reaction
- 11. Explain hydrogenation in alkenes with examples and mechanism
- 12. Define and give the mechanism of Hoffmann rearrangement
- 13. Give any two methods for preparation for cyclo alkanes

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

- Explain protic and aprotic solvents with examples
- 15. Aromatic amines are less basic than aliphatic amines. Give reasons
- 16. Define free radicals, give examples
- 17. Define alkyl shift and hydride shift with examples
- 18. Give the structure and uses of citric acid
- 19. Define nucleophile with example
- 20. Give one method of preparation and uses of paraldehyde
- 21. Explain Diels Alder reaction
- 22. Define Keto-Enol tautomerism
- 23. Give the structure of the following a) m-cresol b) Chloral hydrate
