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Rajiv Gandhi University of Health Sciences, Karnataka I Year Pharm-D Examination – NOV 2017

Time: Three Hours

Max. Marks: 70 Marks

PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. CODE: 2854

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

- 1. What are dienes? Classify them and explain electrophilic addition to conjugated dienes.
- 2. Explain the effects of -OH group and $-NO_2$ group on electrophilic aromatic substitution reaction with examples.
- 3. Discuss the mechanism and stereochemistry of nucleophilic substitution reactions.

SHORT ESSAYS (Answer any Six)

- 4. Explain the mechanism involved in Cannizaro reaction.
- 5. Write a note on dehydration of alcohols.
- 6. Explain the theory of resonance.
- 7. Give the preparation assay and uses of aspirin.
- 8. Discuss the acidity of carboxylic acids.
- 9. How are cycloalkanes prepared?
- 10. What is the mechanism involved in the addition of HBr to alkenes in the absence of peroxides.
- 11. Give the reaction and mechanism of Benzoin condensation.

SHORT ANSWERS

- 12. What is Hydrogen bonding?
- 13. State the Saytzeff rule.
- 14. How will you convert acid to acid chloride?
- 15. Write the structure and uses of Vanillin.
- 16. Define heat of hydrogenation.
- 17. Illustrate the resonance structures of Benzyl cation.
- 18. Give the structures and uses of dimercaprol and methyl salicylate.
- 19. Write the structure of cyclohexene and ethanoic acid.
- 20 Define hyperconjugation. Give examples.
- 21. Give the Claisen condensation.

6 x 5 = 30 Marks

2 x 10 = 20 Marks

10 x 2 = 20 Marks