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Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination – NOVEMBER 2015

Time: Three Hours

Max. Marks: 70 Marks

2 x 10 = 20 Marks

6 x 5 = 30 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. Define and classify isomerism with suitable examples.
- Give the method of preparation and uses of the following:
 a) Benzyl benzoate b) Lactic Acid c) Urea d) Chlorobutol.
- 3. Define Friedel Crafts alkylation and give its mechanism and limitations. Add a note on Friedel Craft's acylation.

SHORT ESSAYS (Answer any Six)

- 4. Explain dehydration of alcohols with mechanism.
- 5. Discuss Markonikov's rule and peroxide effect with mechanism taking one example each.
- 6. Give the mechanism of Michael Addition.
- 7. Write short notes on:
 - a) Intermolecular forces.
 - b) Effect of hydrogen bonding on boiling points.
- 8. Write a note on stability of conjugated dienes.
- 9. Explain chlorination of methane with mechanism.
- 10. Discuss the mechanism and stereochemistry involved in bimolecular nucleophilic substitution reaction.
- 11. What are carbocations? How are they generated? Explain the stability of carbocations.

SHORT ANSWERS

- 12. Write the resonance structure of benzene.
- 13. What are polar solvents? Give two examples.
- 14. Define free radical with examples.
- 15. Give the IUPAC names of acetone and formaldehyde.
- 16. The dipole moment of trans-dicholoroethylene is zero. Why?
- 17. Define electrophile with examples.
- 18. What is Hyperconjugation? Give examples.
- 19. State the Lewis theory of acids and bases.
- 20 Write the resonance structure of carboxylate ion.
- 21. Give an example of Reformatsky reaction.

10 x 2 = 20 Marks

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