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Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Degree Examination – 21-Jan-2020

PHARMACEUTICAL ORGANIC CHEMISTRY (RS2)

Q.P. CODE: 2877

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

LONG ESSAYS (Answer any two)

Time: Three Hours

2 x 10 = 20 Marks

Max. Marks: 70 Marks

- Discuss in detail on the stability of cycloalkanes. Write a note on bayer's train theory.
- 2. Discuss the reaction and kinetics, stereochemistry in nucleophilic aliphatic substitution mechanism.
- 3. Explain Markovnikov's and antimarkovnikov's rules with examples.

SHORT ESSAYS (Answer any six)

6 x 5 = 30 Marks

- Give any four methods for preparation for cyclo alkanes.
- Write a note on elimination vs substation reaction of alkayl halides.
- Define free radical and classify. Explain stability and reactivity of free radicals.
- 7. Explain orientation and reactivity of free radical additions to conjugated dienes.
- 8. Write the preparation of different acid derivatives with example.
- 9. Discuss the mechanism involved in nitration and sulphonation of benzene.
- 10. Explain the mechanism involved in benzoin condensation.
- What is isomerism? Explain keto-enol isomerism.

SHORT ANSWERS

10 x 2 = 20 Marks

- 12. Conversion of acids to amides and anhydrides.
- 13. Write the structure of vinyl bromide and allyl iodide
- 14. Walden's inversion.
- Diel's alder reaction.
- Structure of uses of sodium lauryl sulphate.
- Nomenclature of aldehydes.
- Write the structure and uses of chlorbutanol.
- Perkin condensation.
- 20. Protic and aprotic solvents.
- 21. Give examples and structural isomers.

