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Rajiv Gandhi University of Health Sciences, Karnataka II Year B.Pharm Degree Examination – JAN-2019

Time: Three Hours

Max. Marks: 80 Marks

Pharmaceutical Organic Chemistry - II (Revised Scheme - 2) Q.P. CODE: 1960

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

LONG ESSAYS (Answer any Two)

- 1. What are fats and oils? Add a note on their composition. Describe their chemical properties.
- 2. (a) Describe the various methods for the resolution of racemic mixtures.(b) Write a note on asymmetric synthesis giving examples.
- Give any two methods of synthesis, reactions and their medicinally important compounds with uses of (a) Imidazole (b) pyridine.

SHORT ESSAYS (Answer any Eight)

- 4. Give the structure and medicinal uses of (a) Isoniazid (b) Diethyl carbamazine (c) Carbimazole (d) Pyrimethamine (e) Diazepam.
- 5. What are geometrical isomers? Add a note on their nomenclature.
- 6. Outline the synthesis of Pyrimidine and describe the medicinal importance of it.
- 7. Write a note on stereochemistry of alicyclic compounds,
- 8. Give pharmaceutical applications of Cellulose and its derivatives.
- 9. Explain the stereochemistry of Biphenyls.
- 10. How do you determine iodine value? Explain
- 11. Explain the structure and chemistry of Sucrose.
- 12. Write a note on conformational isomers. Explain the conformation of Butane.
- 13. Illustrate a peptide linkage.

SHORT ANSWERS

- 14. What are Enantiomers?
- 15. Give the structure and uses of a compound containing Naphthalene nucleus.
- 16. Give the structure, systematic chemical name and medicinal uses of Sulphadiazine.
- 17. Outline the E_2 mechanism.
- 18. Write the structure of Azepine and Purine.
- 19. Define epimers.
- 20. Define Mutarotation.
- 21. What is an invert sugar?
- 22. Write a note on optical isomers.
- 23. Give the structure and medicinal uses of Codeine.

10 x 2 = 20 Marks

8 x 5 = 40 Marks

 $2 \times 10 = 20$ Marks