Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – 14-Jan-2020

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) **2 x 10 = 20 Marks**

1. (a) Define polynuclear hydrocarbons. Give five examples with structure and numbering of carbon.
   (b) Write the method for the synthesis of diphenyl methane.
2. Define and classify amino acids with examples. Write any four reactions and synthesis of amino acids.
3. Give the stereochemistry of butane and cyclohexane.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Explain the stereochemical mechanism of addition of halogen to alkenes.
5. What are triglycerides? Describe the significance of their iodine values.
6. Why Pyrrole is more reactive than Pyridine towards electrophilic reagent?
7. What are optically active compounds? Write a note on elements of symmetry.
8. Give the synthesis and reactions of Phenanthrene.
9. What is meant by absolute configuration? Describe the R & S system of nomenclature of optical isomers.
10. Outline the method for conversion of pentose into a hexose.
11. Outline two synthesis of Furan and Thiophene.
12. What are fats and oils? Write a note on rancidity.
13. Give Haworth's synthesis of Naphthalene. Give its chemical properties.

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Define isoelectric point.
15. Outline the Chichibabin reaction.
16. Write the zwitter ions structure of glycine.
17. Write the two synthesis of Benzofuran.
18. What are aldoximes and ketoximes? Give examples.
19. What are epimers? Give examples.
20. How do you convert Naphthalene into 2-Nitro naphthalene?
21. What is hydrogenation of oils?
22. Explain with an example R & S configuration.
23. Write the structures of Beta-D-Glucopyranose and Beta-D-Glucofuranose.

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