

Rajiv Gandhi University of Health Sciences, Karnataka
Third Semester B. Pharm Degree Examination – 23-Mar-2021

Time: Three Hours

Max. Marks: 75 Marks

Pharmaceutical Organic Chemistry - II
Q.P. CODE: 5009

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Explain the mechanism of halogenations of benzene. Halogens are deactivating group but ortho and para director. Give reasons
OR
Enlist the analytical constants of oils and fats. Discuss in detail about acid value and iodine value and give their significance
2. What are aromatic amines? Explain the reactions of aromatic amines. Discuss the effect of substituents on basicity of aromatic amines

SHORT ESSAYS

7 x 5 = 35 Marks

3. Define Friedel-Crafts alkylation. Explain the reaction and mechanism
OR
Give any four chemical reactions of benzoic acid
4. Explain significance and reactions of hydrolysis and hydrogenation of oils and fats
OR
Outline the synthesis of Anthracene by Haworth method
5. Explain Sato-Mohr theory and molecular orbital concept of cycloalkanes
6. Define and classify polynuclear hydrocarbons. Give any two synthesis of naphthalene
7. Explain the reaction and mechanism of sulphonation of benzene
8. Describe any one method to determine Reichert-Meissl value with its significance
9. Give any four chemical reactions of cyclobutane

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the structure and uses of BHC and chloramine
11. Give any one method of synthesis of Phenanthrene
12. Write a note on drying of oils
13. Give the composition of fats and oils
14. How do you calculate the angle in cyclopropane?
15. What are fatty acids? Give an example of unsaturated fatty acids
16. Give the structure and uses of o-cresol and resorcinol
17. Give the qualitative test of phenol
18. Define cycloalkane and give examples
19. Define deactivating group? Give examples
