

Rajiv Gandhi University of Health Sciences, Karnataka

Third Semester B. Pharm Degree Examination – 02-Nov-2023

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. What is electrophilic aromatic substitution reaction? Classify substituent groups with examples. Explain the mechanism of Friedel craft's acylation
OR
What are phenols? Give any three methods of preparation of phenol. Write a note on acidity of phenols
2. What are fatty acids? Explain significance and reactions of hydrolysis, hydrogenation, rancidity and drying of oils

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain the aromaticity, orbital picture and resonance structure of benzene
OR
Define aromatic acids? Give four chemical reactions of benzoic acid
4. Explain basicity of amines and effect of substituent's on basicity
OR
Outline the synthesis of Naphthalene by Haworth method
5. Explain Baeyer's strain theory of cycloalkanes. Write its limitations
6. Define and classify polynuclear hydrocarbons. Give any two synthesis of phenanthrene
7. Explain the reaction and mechanism of nitration of benzene
8. Describe any one method to determine Iodine value with its significance
9. Give any four chemical reactions of cyclopropane

SHORT ANSWERS

10 x 2 = 20 Marks

10. Write the structure and uses of DDT and chloramine
11. Give the synthetic uses of aryl diazonium salts
12. Define acetyl value. Give its significance
13. Write the structure and uses of diphenylmethane
14. Define angle strain and tetrahedral angle
15. Define saturated and unsaturated fatty acids with examples
16. Give the structure and uses of m-cresol and resorcinol
17. Give the qualitative test of phenol
18. What is Sacke-mohr's theory?
19. Define activating groups? Give examples
