

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 Sache-mohr's theory?

19. Define activating groups? Give examples
