

Rajiv Gandhi University of Health Sciences, Karnataka
Third Semester B. Pharm Degree Examination – MAY-2019

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

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. What is Electrophilic aromatic substitution reaction? Discuss the mechanism of Halogenation and Friedelcraft's acylation.
2. What are Aromatic acids? Explain the effect of substituent on acidity of aromatic acids. Give the important reactions of benzoic acid.
3. Define fats and oils. Give any two reactions of fatty acids. Define and explain the principle and involved in the Saponification value (any one method).

SHORT ESSAYS (Answer any Seven)

7 x 5 = 35 Marks

4. Define activating and deactivating groups with examples. Discuss the mechanism of Sulphonation of benzene.
5. Discuss the mechanism of Nitration and Friedelcraft's alkylation of benzene.
6. Explain the basicity and effect of substituents on basicity of amines.
7. Give the effect of substituents on acidity of phenols.
8. Describe any one method to determine iodine value with its significance.
9. Write any two synthesis and reactions of Phenanthrene.
10. Define angle strain. Discuss why higher cycloalkanes are more stable than lower members?
11. Explain the evidence for derivation structure of benzene.
12. Write any two synthesis and reactions of Naphthalene.

SHORT ANSWERS (Answer All)

10 x 2 = 20 Marks

13. Give a note on hydrogenation of fats and oils.
14. Write the structure and used of Saccharin and Chloramine.
15. Give addition reactions of Cyclopropane.
16. Define acid value. Give its significance.
17. Define Acetyl value. Give its significance.
18. Give structure and uses of one medicinally important Phenanthrene derivatives.
19. Write the structure and medicinal uses of Triphenylmethane.
20. Give structure and uses of cresols and resorcinol.
21. What is Baeyer's strain theory?
22. Write the difference between oils and fats.
