

FACULTY OF PHARMACY

B. Pharmacy III - Semester (PCI) (Main & Backlog) Examination, March 2024

Subject: Pharmaceutical Organic Chemistry-II

Time: 3 Hours

Max. Marks: 75

PART-A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Discuss about activating and deactivating groups with examples.
2. Write the structure and uses of Aryl diazonium salts.
3. How do you differentiate fats and oils?
4. Write any two methods of preparation of Aromatic Amines.
5. Explain briefly about Huckels rule.
6. Give the Resonance.structure of Benzene.
7. Write about angle strain.
8. Write the structure and uses of Resorcinol and Naphthol.
9. Give the structure and medicinal uses of Anthracene.
10. Write the structure and uses of DDT.

PART-B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. (a) Explain Bayer's strain theory.
(b) Write the synthesis and reactions of Naphthalene.
12. Describe the Nitration, Sulphonation and Halogenation reactions of Benzene with mechanisms.
13. (a) Discuss the principle and significance of Saponification value and Acid value.-6+4
(b) Explain the Basicity of Aromatic amines.

PART-C

Note: Answer any seven questions

(7 x 5 = 35 Marks)

14. Explain Friedel crafts alkylation and its limitations.
15. Draw and explain the molecular orbital picture of Benzene.
16. Write the methods of preparation and chemical reactions of Phenanthrene.
17. Write the note on Sachtel's theory and give the chemical reactions of Cyclobutane.
18. Explain the principle and significance of Iodine value.
19. Discuss the Acidity of phenols.
20. Explain the reactions of Benzoic acid.
21. Discuss about Hydrolysis and Hydrogenation reactions of fats and oils.
22. Explain the effect of E.W groups on reactivity and orientation of monosubstituted Benzenes with example.
