



Paper id: 252314

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Subject Code: BP301T

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BPHARM
(SEM III) THEORY EXAMINATION 2024-25
PHARMACEUTICAL ORGANIC CHEMISTRY II

TIME: 3 HRS**M.MARKS: 75****Note: Attempt all Sections.****SECTION A****1. Attempt all questions in brief.****10 x 2 = 20**

a.	Define Huckel's rule.
b.	List structure and uses of DDT.
c.	What is the significance of saponification value?
d.	Explain ortho, meta and para directing groups with examples.
e.	Give resonance structure and uses of Resorcinol.
f.	What is Acid value? Give its use.
g.	What do you understand by angle strain?
h.	Why cyclopropane is reactive towards ring-opening reactions compared to Cyclobutane?
i.	Write structure and medicinal uses of Naphthalene.
j.	Define various conformations of Ethane.

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

a.	Discuss Baeyer's strain theory and outline its limitations briefly. What modifications were proposed by Coulson and Moffitt?
b.	What are effects of substituent on acidity? Give important reactions of benzoic acid.
c.	Explain Friedel Crafts alkylation reaction with mechanism and its limitations.

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

a.	Discuss basicity of amines, and how do different substituent's affect their basicity?
b.	What is principle and procedure involved in estimation of Iodine value of fat/oil?
c.	Discuss synthetic uses of aryl diazonium salts.
d.	Write synthesis, reactions and medicinal uses of Phenanthrene and its derivatives.
e.	Explain reactions to differentiate between Phenol, Cresol and Resorcinol.
f.	What do you mean by hydrolysis, rancidity and drying of oils? How it impacts the quality of oils?
g.	Give structure, synthesis and importance of diphenylmethane.