



PAPER ID-311694

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Subject Code: BP301T

Roll No: _____

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

TIME: 3 HRS

M.MARKS: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief.

10 x 2 = 20

a.	Define "Huckel's rule"
b.	Outline the structure and uses of Saccharin.
c.	Discuss any two qualitative tests for phenols.
d.	Explain, why aliphatic amines are more basic than aromatic amines.
e.	Outline the structure and uses of aryl diazonium chloride.
f.	Distinguish between saturated and unsaturated fatty acids.
g.	Discuss the term "Drying oils".
h.	Discuss the resonating structure, resonance energy and stability of naphthalene and phenanthrene.
i.	Discuss any two important reactions of cycloalkanes
j.	Explain, why cyclopentane is more stable than cyclopropane and cyclobutane?

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	Summarize the reaction and mechanism of Friedel craft's alkylation and Friedel craft's acylation reaction of benzene with suitable example.
b.	Define Lipids. Discuss "acid value" and "saponification value" in detail.
c.	Outline Baeyer's strain theory of stability of cycloalkanes and its limitations.

SECTION C

3. Attempt any five parts of the following:

5 x 7 = 35

a.	Outline the resonance theory and molecular orbital theory of benzene in detail.
b.	Illustrate the effect of substituent on the orientation and reactivity of mono-substituted benzene ring.
c.	Define aromatic acids. Outline the preparation and reactions of benzoic acid.
d.	Discuss the acidity of phenols and analyze the effect of substituents on the acidity of phenols.
e.	Summarize important reactions of fatty acids.
f.	Outline the preparation and reactions of anthracene.
g.	Describe "Coulson and Moffitt's theory" of cycloalkanes.