PAPER ID-421701

Subject Code: BP301T

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM III) THEORY EXAMINATION 2021-22
PHARMACEUTICAL ORGANIC CHEMISTRY II

Time: 3 Hours ***Total 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.	Outline Friedel craft's alkylation reaction of benzene.
b.	Discuss the structure and uses of BHC.
c.	Outline any 2 qualitative tests for phenols.
d.	Outline any two important reactions of benzoic acid.
e.	Differentiate between "fats" and "oils".
f.	Describe rancidity of oil.
g.	Compare the aromaticity of naphthalene and phenanthrene.
h.	Discuss the structure and uses of naphthalene.
i.	Define cycloalkanes.
j.	Give stability order of cycloalkanes.

SECTION B

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

a.	Summarize the analytical, synthetic, and other evidence in the derivation of structure of benzene.
b.	Describe Baeyer's strain theory of stability of cycloalkanes and its limitations.
c.	Discuss about fatty acids. Explain the reactions of fatty acids.

SECTION C

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

a.	Illustrate the mechanism of Friedel craft's acylation reaction of benzene.
b.	Discuss the effect of substituent on the orientation and reactivity of mono-substituted benzene.
c.	Discuss the acidity of phenols and analyze the effect of substituents on the acidity of phenols.
d.	Outline the important method of preparation and reactions of aromatic amines.
e.	Describe "saponification value" and "iodine value" along with their significance.
f.	Summarize the preparation and reactions of phenanthrene.
g.	Outline the preparation and reaction of cycloalkanes.