Printed Pages: 01 **Sub Code: BP-301T**

Paper Id: 233039 **Roll No.** | | | | | | | | | | |

B.PHARM.
(SEM III) THEORY EXAMINATION 2022-2023
PHARMACEUTICAL ORGANIC CHEMISTRY-II

Time: 3 Hours ***Total Marks: 75***

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

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

(a) What is Huckel's rule?

(b) Give structure of DDT and its uses.

(c) Describe structure and uses of Phenol.

(d) What is Fat and Oil? Give examples.

(e) What is Acid value? Give its use.

(f) Explain Iodine value and its significance.

(g) Define Saponification value.

(h) What is Ester value?

(i) Give resonance structure and uses of Resorcinol.

(j) Give physical and chemical properties of Naphthalene.

SECTION B

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

(a) Explain Baeyer strain theory of stability of Cycloalkanes and give its limitations.

(b) Explain Sachse Mohr's theory. Give reactions of cyclopropane and cyclobutane only.

(c) Explain synthetic and other evidences in the derivation of structure of benzene.

SECTION C

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

(a) Give structures, synthesis, reactions and uses of Anthracene derivatives.

(b) Explain structure and uses of Saccharin, BHC and Chloramine.

(c) Define aromatic amines and give resonance structure of Aniline

(d) Give structure, synthesis and importance of diphenylmethane.

(e) Why phenols are acidic in nature? Explain effect of substituents on acidity of phenols.

(f) What is principle and procedure involved in estimation of acid value of fat/oil?

(g) Explain structure and medicinal uses of Phenanthrene and Triphenylmethane.

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