

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.