

B PHARM
(SEM-III) THEORY EXAMINATION 2018-19
PHARMACEUTICAL ORGANIC CHEMISTRY –II

*Time: 3 Hours**Total Marks: 75***Note: 1.** Attempt all Sections.**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. Write a short note on resonance structure of benzene.
 - b. Give the structure and uses of Saccharin.
 - c. What are phenols? Give physical properties of it.
 - d. Give resonance structure and uses of Resorcinol.
 - e. What is the difference between fats and oils?
 - f. Define Iodine number (Iodine value).
 - g. Define acetyl value. Give its signification.
 - h. What are the uses of triphenylmethane?
 - i. Give physical and chemical properties of naphthalene.
 - j. Define cycloalkanes.

SECTION B

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Explain aromatic electrophilic substitution reactions in Benzene with respect to halogenation with mechanism.
 - b. Give structures, synthesis, reactions and uses of Anthracene derivatives.
 - c. Explain Baeyer strain theory of stability of Cycloalkanes and give its limitations.

SECTION C

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- a. Give the structure and uses of DDT, BHC and Chloramine.
 - b. Define aromatic amines and give resonance structure of aniline. Explain basicity of aromatic amines and effect of substituent.
 - c. Explain the principle involved in determination of saponification value of a fat/oil.
 - d. Why phenols are acidic in nature? Explain effect of substituents on acidity of phenols.
 - e. What is principle and procedure involved in estimation of acid value of fat/oil?
 - f. Give structure, synthesis and importance of diphenylmethane.
 - g. Explain Sacher-Mohr theory of stability of cycloalkanes. Give reactions of cyclopropane and cyclobutane.