Printed Pages:1 **Sub Code: BP301T**

Paper Id: 150301 **Roll No.** | | | | | | | | | | |

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 Sache-Mohr theory of stability of cycloalkanes. Give reactions of cyclopropane and cyclobutane.

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