PAPER ID-310473

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

BPHARM
(SEM III) THEORY EXAMINATION 2023-24
PHARMACEUTICAL ORGANIC CHEMISTRY II

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections.

SECTION A

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

a. What is importance of conc. Sulphuric acid in nitration?

b. Give the structure and uses of Chloramine.

c. Write aromatic character of Benzene.

d. Why phenols are more acidic than alcohols? Give reasons.

e. What are aryldiazonium salts and give its applications.

f. How α-naphthol is differentiated from β-naphthol?

g. What is the difference between fats and oils?

h. What is the significance of Iodine value?

i. Write down the principle involved in determination of acetyl value.

j. How will you synthesize anthracene from benzene?

SECTION B

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

a. Explain aromatic electrophilic substitution reactions in Phenol with respect to alkylation and acylation with mechanism.

b. What are the uses of naphthalene? Give method of preparations and chemical reactions of naphthalene.

c. Define cycloalkanes. 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. Explain aromatic electrophilic substitution reactions in Benzene with respect to nitration and sulphonation with mechanism.

b. What is principle and procedure involved in estimation of acid value of fat/oil? Give its significance.

c. Give resonance structure of benzonic acid. Explain effect of substituent on acidity of benzonic acid.

d. What are phenols? Why phenols are acidic in nature? Give any three qualitative tests of phenols.

e. Explain the principle and procedure involved in determination of saponification number.

f. Explain structure, preparation, reaction and uses of phenanthrene and antracene.

g. Explain Coulson and Moffitt's theory in cyclopropane. Give reactions of cyclopropane and cyclobutane.