

FACULTY OF PHARMACY
B. Pharmacy III Semester (PCI) (BACKLOG) Examination, February 2022

Subject: Pharmaceutical Organic Chemistry-II

Time: 3 Hours

Max. Marks: 75

PART - A

Note: Answer all questions.

(10 x 2 = 20 Marks)

- 1 Describe resonance in benzene.
- 2 Write the structure and uses of Chloramine.
- 3 Define and differentiate fats & oils with examples.
- 4 Write any two methods for the preparation of cycloalkanes.
- 5 Write any two qualitative tests for phenols.
- 6 What are puckered rings? Give structural examples.
- 7 Write the resonance structures and uses of phenanthrene.
- 8 Describe the drying of fats and oils.
- 9 Write about Haworth synthesis of naphthalene.
- 10 Write the structure & uses of cresol.

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

- 11 Describe the following reactions of benzene with their mechanism: Halogenation & Nitration.
- 12 Explain diazotization reaction. Write the synthetic applications of aryl diazonium salts.
- 13 Write the definition, significance and determination of following analytical constants: iodine value & saponification value.

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

- 14 Explain the mechanism involved in Friedel-craft's alkylation reaction of benzene with its limitations.
- 15 Explain about oxidation & hydrogenation of fats and oils.
- 16 Write the structure and uses of anthracene and its derivatives.
- 17 Write the preparation and reactions of benzoic acid.
- 18 Explain Baeyer's angle strain theory along with its limitations.
- 19 Define acid value. Describe its significance and determination.
- 20 What are activating & deactivating groups? Explain the theory of orientation in electrophilic substitution reactions of mono substituted benzene.
- 21 Write the preparation, reactions and uses of diphenylmethane.
- 22 Explain the acidity of phenols.
