

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LR 0121]

JANUARY 2021

Sub. Code: 2031

(MARCH 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI REGULATION – SEMESTER III

PAPER I – PHARMACEUTICAL ORGANIC CHEMISTRY – II

Q.P. Code: 562031

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. a) Write the general methods for the preparation of Amines.
b) Enumerate the preparation and synthetic utility of Diazonium salts.
2. a) Write the structure of Naphthalene and briefly about the conventions used in Numbering Carbons.
b) Haworth synthesis and reactions of Naphthalene.
3. Define Aromatic electrophilic substitution reactions. Discuss the reaction and mechanism of Nitration, Friedel-Craft's Alkylation and Friedel-Craft's Acylation Reactions.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Write any three methods for synthesis of Diphenyl methane.
2. Bayer's strain theory.
3. Synthesis of Phenanthrene.
4. Structure and uses of α , β -Naphthol, Resorcinol and Chloramine.
5. Resonance theory of Benzene.
6. Chemical reactions of Anthracene.
7. Important reactions of Cyclobutane.
8. Chemical reactions of Aromatic Carboxylic acids.
9. Determination of Acid value.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Difference between an Oil and Fat.
2. Hinsberg test.
3. Lipids and its classification.
4. Synthesis and uses of Triphenyl methane.
5. Waxes.
6. Define hybridization.
7. Mechanism of Halogenation of benzene.
8. Acidity of Phenols.
9. Basicity of amines.
10. Saponification value.
