

Ex/BP301T/2024(S)

Pharmacy Second Year First Semester Supplementary Examination 2024

Subject: Pharmaceutical Organic Chemistry – II

Full Marks: 75

Time: 3 Hrs.

Answer any *five questions* by taking *at least two* from each group.

Group A

1. Write notes on: (i) Halogenated phenols, (ii) Nitrophenols. [2 x 7.5]
2. Give an account of different reactions of diazonium salts. [15]
3. How do you prepare:
(i) m-Phenylene diamine; (ii) p-Dinitrobenzene; (iii) Diphenyl ether [3 x 5]

Group B

4. a) How will you prepare cycloalkanes using Wurtz reaction, Clemmensen Reduction and Dieckman Reaction? [9]
b) Discuss Bayer Strain Theory of cycloalkanes. [6]
5. a) Conformation of cycloalkanes. [6]
b) Haworth synthesis of Naphthalene [5]
c) What happened if anthracene is treated with sodium dichromate and sulphuric acid. [4]
6. Answer any **three**
a) Sulphonation of Naphthalene [5]
b) Friedel-Crafts Acylation of Naphthalene [5]
c) What happened if Naphthalene is treated with conc. Sulphuric acid at 40°C and 165°C. [5]
d) Sulphonation and oxidation of Anthracene [5]