

[BPHARM 0122]

**JANUARY 2022
(AUGUST 2021 EXAM SESSION)****Sub. Code: 4252**

**B.PHARMACY DEGREE COURSE (NON-SEMESTER EXAMINATIONS)
FIRST YEAR (Regulation 2009-2010)
PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY
Q.P. Code: 564252**

Time: Three hours**Answer ALL questions****Maximum: 100 Marks****I. Elaborate on:****(2 x 20 = 40)**

1. a) Write down the general methods of preparation of Alkyl and Aryl halides.
b) Explain the methods of preparation and synthetic utility of Malonic ester
2. Describe the mechanism, kinetics, stereochemistry and relative reactivity of alkyl halides in SN1, SN2 reactions.

II. Write notes on:**(8 x 5 = 40)**

1. Write the methods of preparation of Amines.
2. Write a detailed note on FREE radicals.
3. Explain the preparation and synthetic utility of Diazonium salt.
4. Write the methods of preparation of Alkanes.
5. Describe Williamson synthesis.
6. Mention the methods of preparation and reactions of Ketone.
7. Write the preparation and synthetic utility of Grignard reagent.
8. Give the preparation and medicinal uses of amphetamine.

III. Short answers on:**(10 x 2 = 20)**

1. Methyl salicylate.
2. Hoffmann degradation of amines.
3. Explain bond fission.
4. Aromaticity of Benzene.
5. Citric acid
6. Anthracene.
7. Give the structure of phenol and aniline.
8. Brief about oxidation of Aldehyde.
9. Carbanion.
10. Oxidation of primary alcohol.
