

(LO 4252)

FEBRUARY 2019

Sub Code: 4252

**B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY**

Q.P. Code: 564252

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

1. a) Write any three methods of preparation and reactions of aldehydes and ethers.
b) Describe any one method of preparation and any five synthetic utility of Malonic ester.
2. a) Write in detail about tautomerism and inter-molecular forces in organic compounds.
b) Describe the Mechanism of Diel's-Alder reaction and Halogenations of alkanes.

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

1. Describe the methods of preparation and reactions of alkenes.
2. Describe the reaction mechanism of SN_2 with suitable examples.
3. Give the preparation, tests for purity and medicinal uses of Methyl Salicylate.
4. What are Grignard reagent and give the applications of Grignard reagent?
5. Give any four reactions of Naphthalene.
6. 1, 2 addition and 1, 4 addition.
7. Describe the preparation and uses of Iodoform and Citric acid.
8. Discuss about the effect of substituent on reactivity and orientation with Benzene.

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

1. Give three examples for α , β -Unsaturated carbonyl compounds.
2. What are Free radicals?
3. Draw the structure and uses of Vanillin.
4. Write about the types of bond fission.
5. Write about the stability of carbocations.
6. Give one example for nucleophilic aromatic substitution reaction.
7. Give any one method of preparation of Diphenyl ethane.
8. Give the structure and uses of Sodium Lauryl Sulphate.
9. Hoffmann degradation of amines.
10. Give the structural formula and IUPAC name of Acetone.
