



(LK 4252)

FEBRUARY 2017

Sub Code: 4252

**B.PHARM. 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 the various reactions of Carboxylic acids.
b) Classify alcohols with suitable examples. Explain the nomenclature, method of preparation and chemical reactions of alcohols.
2. Explain the following reactions with examples:
a) Nucleophilic aliphatic substitution reaction.
b) Elimination reactions. c) Free radical reactions.

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

1. Write the methods of preparation of Amines.
2. Markownikoff's rule and peroxide effect.
3. Haworth synthesis of Naphthalene.
4. Give the preparation and medicinal uses of Saccharin.
5. Explain the mechanism of Electrophilic aromatic substitution reaction.
6. Write about the properties of Alpha and Beta unsaturated carbonyl compounds.
7. Explain Bayer's strain theory.
8. Give any four reactions of Anthracene.

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

1. Any two methods of preparation of alcohol.
2. Give the structure of Aniline and Methyl salicylate.
3. Write the method of preparation of Iodoform.
4. Explain the Peroxide effect.
5. Draw the structure of Diethyl ether and Isopropyl alcohol.
6. Method of preparation and uses of Sodium lauryl sulphate.
7. Preparation of Grignard reagent.
8. Medicinal uses of Dicophane and Vanillin.
9. Explain inductive effect.
10. Explain Polarity.

