

B PHARM
(SEM II) THEORY EXAMINATION 2017-18
PHARMACEUTICAL ORGANIC CHEMISTRY-I

*Time: 3 Hours**Total Marks: 75***Note:** 1. Attempt all Sections.**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- Write down the structure of 2,2,4-trimethylpentane and amyl alcohol
 - What are chiral and achiral compounds?
 - Discuss any two method of preparation of alkanes.
 - What is Hybridization?
 - Define structure and uses of Chloroform and Ethyl alcohol.
 - What is Vector Meyer's test?
 - Discuss the preparation of ketone from geminal di halides.
 - Define crossed aldol condensation.
 - What do you mean by nucleophile?
 - Define structure and uses of Acetic acid and Lactic acid,

SECTION B

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- Differentiate E^1 and E^2 reactions with their kinetics and order of reactivity of alkyl halides. Explain factors affecting E^1 and E^2 reactions.
 - Give the methods of preparation of alkyl halides. Discuss about SN^1 and SN^2 reactions in detail.
 - What is carbonyl compound? Explain their qualitative test and methods of preparation.

SECTION C

- 3. Attempt any five parts of the following: 7 x 5 = 35**
- Give the detailed classification of organic compounds
 - Define Sp^3 hybridization in alkanes. Explain halogenation reaction of alkanes.
 - Describe Markovnikov and Anti-Markovnikov rule with suitable examples.
 - Discuss methods of preparation and reactivity of conjugated dienes.
 - Describe a detailed account of nucleophilic addition reaction of carbonyl compounds.
 - Explain Cannizzaro and Perkin reaction with mechanism.
 - Give the methods of preparation and reactivity of carboxylic acids. Explain the acidity of carboxylic acid.