

[LL 804]

OCTOBER 2017

Sub. Code: 3804

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
FIRST YEAR
PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 383804

Time : Three hours**Maximum : 70 Marks****I. Elaborate on:****(4 x 10 = 40)**

1. What do you understand the term Aliphatic Nucleophilic substitution reactions? Explain the reaction, mechanism, kinetic, stereochemistry and factor influence SN_1 reactions.
2. Write in detail the mechanism of free radical halogenations of Methane. Discuss its thermodynamics.
3. Discuss the reaction, mechanism and its synthetic application of :
a) Perkins condensation b) Cannizaro reaction.
4. Discuss the mechanism of the following:
a) Nitration of Benzene b) Chlorination of Propene

II. Write notes on:**(6 x 5 = 30)**

1. Acid base theory.
2. Write a note on acidity of carboxylic acid.
3. Classification and stability of free radicals.
4. Conversion of carboxylic acid to acid chloride and amide.
5. Discuss the preparation, assay and uses of Vanillin.
6. Oxidation reactions.
