

[LF 804]

OCTOBER 2014

Sub. Code: 3804

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION
(2009-2010 Regulation)

FIRST YEAR

PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 383804

Time: Three Hours

Maximum: 70 marks

Answer All questions

I. Elaborate on:

(4 x 10 = 40)

1. Discuss the reaction, mechanism of Nucleophilic aromatic substitution.
2. Briefly discuss Stereochemistry of SN1 and SN2 reaction.
How rearrangement take place in carbocation in Nucleophilic aliphatic substitution.
3. Mention the reaction of conversion of acid to:
 - a) Amide.
 - b) Acid chloride.
 - c) Esters.
 - d) Anhydride.
4. Explain the following reaction with mechanism:
 - a) Diazotisation and coupling.
 - b) Aldol condensation.

II. Write notes on:

(6 x 5 = 30)

1. Explain the addition reaction of conjugated dienes.
2. Write the structure, preparation, Assay and chemical uses of Sodium lauryl sulphate.
3. Explain the Wittig reaction with mechanisms.
4. Additions of carbene.
5. Orbital picture of Allyl radical.
6. Explain the mechanism of E1 and E2 reaction.
