

[LI 804]

APRIL 2016

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. Explain theory of Resonance. Describe in detail Resonance hybrid, stability and orbital picture of Allyl Radical.
2. What are Alkanes? Explain the free radical substitution mechanism of chlorination of Methane in the presence UV light.
3. Discuss aromatic substitution reaction with Nucleophilies.
4. Explain the following reaction with mechanism:
a) Cannizzaro reaction b) Williamson synthesis

II. Write notes on :

(6 x 5 = 30)

1. Write a note on diazotisation and coupling reaction.
2. Write the structure, preparation and chemical uses of Mephensin.
3. Explain the mechanism and Stereochemistry of SN₂ reaction.
4. Explain the Kolbe reaction with mechanisms.
5. Define Isomerism with suitable examples.
6. Give the different methods for preparation of Alicyclic compounds.
