

[LG 804]

APRIL 2015

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. Discuss the electrophilic substitution reaction in aromatic system. Explain Mechanism of their reaction.
2. Briefly discuss Markownikoff's rule and Peroxide effect with an example.
3. Discuss about Dehydro halogenation of alkyl halides. Explain about its Kinetic and mechanism of E1 and E2 reactions.
4. Explain the following reaction with mechanism:
a) Michael addition b) Reimer tieman's reactions

II. Write notes on :

(6 x 5 = 30)

1. Write short notes on Baeyer's strain theory.
2. Mention the structure and name them according to IUPAC
i) Formic acid ii) Acetaldehyde iii) Acetamide iv) Neopentane
3. Write the structure, preparation, Assay and chemical uses of Ethylene diamine dihydrate.
4. Explain stereochemistry of S_N1 and S_N2 reactions.
5. Explain the method of preparation of esters and anhydride.
6. Explain the Wittig reaction with mechanisms.
