

[LH 804]

OCTOBER 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****Answer ALL questions****I. Elaborate on :****(4 x 10 = 40)**

1. Write the electrophilic addition reactions of alkenes.
2. Explain the reactivity and orientation in Electrophilic aromatic substitution with activating and deactivating O, P, and M directing groups.
3. Give the mechanism involved in Aldol condensation and Hoffmann rearrangement.
4. Explain SN^1 reaction with reference to mechanism, kinetics and stereochemistry.

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

1. Protic and Aprotic solvents.
2. Phase transfer catalysis.
3. 1, 2 elimination reactions.
4. Allylic rearrangement.
5. Write the preparation and medicinal uses of
 - (a) Sodium lauryl sulphate.
 - (b) Methyl salicylate.
6. E2 vs. E1.
