

[LD 804]

OCTOBER 2013

Sub. Code: 3804

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**FIRST YEAR****PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY***Q.P. Code: 383804***Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 40)**

1. a) Write the Electrophilic addition reactions of alkenes.
b) Write about basicity of amines.
2. a) Explain the mechanisms involved in Elimination reactions.
b) (i) Aldol Condensation.
(ii) Hoffmann rearrangement.

II. Write notes on:**(10 x 3 = 30)**

1. Aliphatic Nucleophilic substitution V.s. Aromatic nucleophilic substitution.
2. Fries rearrangement.
3. Write the preparation and medicinal uses of
 - a) Vanillin.
 - b) Salicylic acid.
4. Write any three methods of preparation of carboxylic acids.
5. a) Williamsons synthesis.
b) Sandmeyer reaction.
6. 1, 4-addition and. 1,2-addition reactions of Dienes.
7. Markownikoff's rule.
8. Bayers strain theory.
9. SN₁ VS. SN₂.
10. Phase transfer catalysis.
