

[LD 804]

OCTOBER 2013

Sub. Code: 3804

PHARM. D DEGREE EXAMINATION

FIRST YEAR

PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code : 383804

Time : 3 hours

Maximum : 70 marks

I. Elaborate on :

(2x20=40)

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

II. Write notes on :

(10x3=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
