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[LG 804] **APRIL 2015 Sub. Code: 3804**

DOCTOR OF PHARMACY (PHARM, D) DEGREE EXAMINATION (2009-2010 Regulation)

FIRST YEAR

PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

O.P. Code: 383804

Time: Three Hours Maximum: 70 marks

Answer All questions

I. Elaborate on: $(4 \times 10 = 40)$

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.

1. Write short notes on Baeyr's strain theory.

2. Mention the structure and II. Write notes on: $(6 \times 5 = 30)$

- 2. Mention the structure and name them according to IUPAC NAMELLE
 - i) Formic acid.
 - ii) Acetaldehyde.
 - iii) Acetamide.
 - iv) Neopentane.
- 3. Write the structure, preparation, Assay & chemical uses of Ethylene diamine dihyrate.
- 4. Explain stereochemistry of SN1 and SN2 reactions.
- 5. Explain the method of preparation of esters and anhydride.
- 6. Explain the Wittig reaction with mechanisms.
