

[LJ 804]

OCTOBER 2016

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 in detail about the mechanism and thermodynamics of free radical halogenations of methane.
2. Briefly explain the mechanism and kinetics involved in nucleophilic unimolecular and bimolecular reactions.
3. Explain Kolbe's reaction and Fries rearrangement.
4. Discuss the 1, 2 addition and 1, 4 addition reactions of conjugated dienes.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write a brief note about the basicity of amines.
2. Briefly explain Bayer's strain theory.
3. Write a note on Resonance.
4. Write the test for purity, assay and medicinal uses of salicylic acid.
5. Explain Markownikoff rule with example.
6. Explain the acid base on the basis of Lowry-Bronsted concept.

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