

[LC 804]

APRIL 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: 100 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 40)**

1. a) Define elimination reaction.
Explain about its Kinetic, mechanism and isotopic effect of E1 and E2 reactions.
- b) Add a note on dehydration of acid catalysis.
2. a) Write the Mechanism, reactivity, orientation of aromatic electrophilic substitution reaction with suitable examples.
- b) Explain about the resonance stabilization of benzyl radical.

II. Write notes on:**(10 x 6 = 60)**

1. Preparation, test for purity, assay and uses of methyl salicylate.
2. Explain about preparation methods of free radicals.
3. Outline briefly about Bayer strain theory.
4. Discuss the mechanism and synthetic uses of Hoffman rearrangement reaction.
5. Describe the preparation methods for amide.
6. Preparation, test for purity, assay and uses of Chlorbutol.
7. Write notes on Inter molecular forces.
8. Give the mechanism for nitration and sulphonation reaction.
9. Explain the preparation methods and synthetic uses of diazonium salts.
10. Discuss the mechanism and synthetic uses of Reformatsky reaction.
