

[KY 804]

MAY 2011

Sub. Code: 3804

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**(Regulations 2008-2009)****(Candidates admitted from 2008-2009 onwards)****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. Describe the two mechanisms of aliphatic nucleophilic substitution reactions.
Compare and contrast these two reactions in detail.
2. Describe in detail free radical halogenation of methane explaining the thermodynamics of the reaction with respect to the halogens: F, Cl, Br, & I.

II. Write notes on:**(6 x 5 = 30)**

1. Preparation, tests for purity, assay, and uses of Aspirin.
2. Aldol condensation and cyanohydrin reaction of aldehydes.
3. Explain Sandmeyer's reaction with suitable examples.
4. Two methods of preparations of aldehydes.
5. Explain Schotten-Bauman reaction.
6. Write a note on the advantages of Friedal Crafts Acylation over Alkylation.
