

[KW 804]

MARCH 2010

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. Explain the preparation of alcohol with special reference to gniguard synthesis, reduction of carbonyl compounds, acids and esters.
2. Explain the mechanisms of following name reactions.
 - a) Claisen condensation.
 - b) Knorvenagel reaction.
 - c) Michael addition.
 - d) Perkin condensation.

II. Write notes on:

(6 x 5 = 30)

1. Explain fries rearrangement and hofmann rearrangement.
2. Preparation, tests for purity, assay and uses of methyl salicylate.
3. Explain the diazotization and coupling reactions of amioes.
4. Explain the 1,2 addition and 1,4 addition reactions of conjugated dienes.
5. Outline the important chemical properties of aldehydes.
6. What are cycloalkanes? Give egs. How the cycloalkanes are prepared?
