

[PHARMD 0321]

MARCH 2021

Sub. Code: 3804

(OCTOBER 2020 EXAM SESSION)

PHARM. 'D' DEGREE EXAMINATION

FIRST YEAR (2009-2010 Regulation)

PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code : 383804

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain the mechanism and reaction involved in
 - a) Sandmeyer's reaction.
 - b) Hofmann rearrangement.
2. Explain the mechanism, kinetics and orientation of E1 and E2 reactions.
3. Describe briefly about Baeyer strain theory by depicting the orbital picture of angle strain of various cyclo alkanes.
4. Enumerate the mechanism involved the peroxide initiated addition of hydrogen bromide to alkenes.

II. Write notes on:

(6 x 5 = 30)

1. Define oxidation. Write a note on the types of oxidizing agents with examples.
2. Add a note on the acidity of Phenols.
3. Write the preparation, tests for purity, assay and uses of Mephenesin.
4. Enumerate briefly on the conversion of carboxylic acid into its various derivatives.
5. Write a note on activating and deactivating ortho, para and meta directing groups.
6. Write a note on Walden inversion.
