

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[PHARMD 1122]

NOVEMBER 2022
(OCTOBER 2022 EXAM SESSION)

Sub. Code: 3804

PHARM. 'D' DEGREE EXAMINATION
FIRST YEAR (2009-2010 Regulation)
PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code : 383804

Time : Three hours

Answer ALL Questions

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Explain Baeyer's Strain Theory and discuss its limitations.
2. Discuss briefly on the acidity of carboxylic acid and enumerate the conversion of carboxylic acid to acid chlorides, esters, amides and anhydrides
3. State Markownikoff rule and explain with mechanism about the addition of hydrogen halides to carbon-carbon double bonded systems.
4. Explain with mechanism about the dehydration of alcohol and factors leading to the ease of dehydration.

II. Write notes on:

(6 x 5 = 30)

1. Briefly write on the Polarity of molecules.
2. Give an account on the preparation, test for purity, assay and medicinal uses of Chlorbutol and Urea.
3. Brief out on Reformatsky reaction with mechanism.
4. Write a note on cycloaddition reactions.
5. Give an account on the isotope effect in elimination reactions.
6. State the theory of resonance and sketch out the orbital picture of allyl radical.
