

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

[LP 942]

NOVEMBER 2019

Sub. Code: 2942

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-I
BRANCH II – PHARMACEUTICAL CHEMISTRY – MPC
PAPER II – ADVANCED ORGANIC CHEMISTRY – I

Q.P. Code : 262942

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the mechanism, relative reactivity and orientations of Elimination reactions.
2. Discuss the mechanism and applications of the following organic name reactions:
 - a) Knorr pyrazole synthesis.
 - b) Smiles rearrangement reaction.
 - c) Traube purine synthesis.

II. Write notes on:

(7 x 5 = 35)

1. Give the mechanism and application of Ullmann coupling reaction.
2. Discuss the mechanism and factors influence for bimolecular substituent reaction.
3. Outline the synthesis and medicinal uses of Ketoconazole and Alprazolam.
4. Write a note on Functional Group Inter-conversion (FGI) and Functional Group Addition (FGA).
5. Give any two applications of Osmium tetroxide and diazomethane.
6. Discuss about the role of protection in organic synthesis.
7. Write a note on Bernthsen Acridine synthesis.
