

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

[LO 942]

MAY 2019

Sub. Code: 2942

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-I
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 and give the synthetic applications of the following reactions:
a) Dieckmann reaction b) Mannich reaction c) Brook rearrangement
2. Explain the method of formation and synthetic applications for the following:
a) Free radicals b) Nitrenes c) Carbanions

II. Write notes on:

(7 x 5 = 35)

1. Explain the protection for the carbonyl group in organic synthesis.
2. Write synthetic application of Wittig reagent and diazopropane.
3. Synthesis and medicinal uses of Chloroquin and Triamterene.
4. Give the basic principles and advantages of retrosynthesis.
5. Discuss the mechanism of elimination reactions.
6. Explain about the strategies for synthesis of five membered ring compounds.
7. Explain Combes Quinoline synthesis.
