

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

[MPHARM 0921]

SEPTEMBER 2021
(OCTOBER 2020 EXAM SESSION)

Sub. Code: 2946

M.PHARMACY DEGREE EXAMINATION
SEMESTER-II (PCI New regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER II – ADVANCED ORGANIC CHEMISTRY – II
Q.P. Code : 262946

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Give a detailed account on Microwave technology in process optimization and applications.
2. (a) Explain in detail sigmatropic rearrangement reactions.
(b) Discuss the theory and applications of Phase transfer catalysts.

II. Write notes on:

(7 x 5 = 35)

1. Explain coupling reactions in peptide synthesis.
2. Write notes on the following
 - (a) Diastereoisomers
 - (b) Enantiomers
 - (c) Stereoselective synthesis.
3. Discuss in detail side reactions in peptide synthesis.
4. What is cis-trans isomerism? Explain E-Z nomenclature with suitable examples.
5. Describe the importance of solid supports and linkers in peptide synthesis.
6. Explain physical process in photochemical reactions.
7. Describe the applications of transition metals in organic synthesis.
