

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

[M.PHARM 1223]

DECEMBER 2023
(OCTOBER 2023 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. a) Explain principle, effect of solvents in microwave assisted synthesis, mechanism and merits and demerits of its use.
b) Write notes on Sigmatropic rearrangement reaction.
2. a) Explain the coupling reaction in peptide synthesis.
b) Write notes on enantiopure separation and stereo selective synthesis.

II. Write notes on:

(7 x 5 = 35)

1. Low and high HF cleavage protocols.
2. Photo oxidation and photo fragmentation reactions.
3. Synthetic application of transition metals and organo catalysts.
4. Define asymmetric synthesis and explain the types of asymmetric synthesis.
5. Liquid -liquid and liquid – solid reaction and its application.
6. Side reaction in peptide synthesis.
7. Phase transfer catalysis.
