

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

[M.PHARM 0823]

**AUGUST 2023
(APRIL 2023 EXAM SESSION)**

Sub. Code: 2947

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New Regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER III – COMPUTER AIDED DRUG DESIGN**

Q.P. Code: 262947

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Theoretical and Experimental approaches for calculating QSAR parameters.
2. A. Design two agents each for both cholinesterases (Acetyl and butyryl).
B. Steps to determine ADME properties of a molecule.

II. Write notes on:

(7 x 5 = 35)

1. Bioactive conformation of an active molecule.
2. Discuss the force fields operating under MOLECULAR MECHANICS.
3. Fragment based drug designing.
4. Types of drug – receptor interactions.
5. 2D Pharmacophore screening.
6. Frame equations for QSAR applying 2D parameter.
7. Drugs designed based on homology techniques.
