

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

[M.PHARM 0922]

**SEPTEMBER 2022
(APRIL 2022 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. Explain Fragment based drug design.
2. a) Differentiate between rigid docking and flexible docking.
b) Brief out on ligand-based drug design.

II. Write notes on:

(7 x 5 = 35)

1. Explain in detail the partition coefficient property of the molecules with examples.
2. Write a short note on Comparative Molecular Field Analysis (CoMFA).
3. Note on the applications of quantum mechanics in drug design.
4. Briefly explain Lipinsky's Rule of five.
5. Write a short note on global energy minimization.
6. What do you mean by ADMET? Discuss the importance of ADMET property prediction in drug design.
7. Write a note on the agents acting on the enzyme, Choline esterase.
