

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

[LP 947]

NOVEMBER 2019

Sub. Code: 2947

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-II
BRANCH-II – PHARMACEUTICAL CHEMISTRY – MPC
PAPER III – COMPUTER AIDED DRUG DESIGN

Q.P. Code : 262947

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain various physico chemical parameters involved in the study of Quantitative Structure Activity Relationship.
2. a) Write a note on various energy minimization techniques used in molecular modelling study.
b) Explain briefly about the molecular modelling approaches in the discovery of DHFR inhibitors

II. Write notes on:

(7 x 5 = 35)

1. Write a note on 3D-QSAR approach.
2. Brief out on ligand based drug design.
3. State the Lipinski's rule of five and explain the importance of the parameters in drug discovery.
4. Write a note on 3D structure alignment.
5. Explain De Novo drug design.
6. Brief out on PLS & CoMFA analysis.
7. Brief out on fragment based drug design.
