

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

[MPHARM 0122]

**JANUARY 2022
(APRIL 2021 EXAM SESSION)**

Sub. Code: 2987

**M.PHARMACY DEGREE EXAMINATION
SEMESTER-II (PCI New regulations 2016)
PHARMACOLOGY - MPL
PAPER III – PRINCIPLES OF DRUG DISCOVERY
*Q.P. Code : 262987***

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail the role of genomics and proteomics in target discovery and validation.
2. Discuss in detail the various methods employed in molecular docking-based screening of new chemical entities.

II. Write notes on:

(7 x 5 = 35)

1. Zinc finger proteins.
2. Threading methods in protein structure prediction.
3. Explain the application of Combinatorial chemistry in lead identification.
4. Discuss the concept of pharmacophore mapping.
5. Hansch analysis.
6. Ligand based drug design.
7. Regression analysis.
