

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

[M.PHARM 0524]

**MAY 2024
(APRIL 2024 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. a) What are the ways of lead discovery can be done? With suitable example. Explain any one method in detail.
b) Write a note on 2D pharmacophore.
2. a) What is meant by QSAR? Explain the QSAR technique in detail by Hansch analysis. State its importance in drug development process.
b) How docking score can help in drug designing process?

II. Write notes on:

(7 x 5 = 35)

1. State role of proteomics in target identification.
2. Write a note on Zinc finger proteins.
3. What are microarray techniques? Explain its significance in target discovery.
4. Compare and contrast traditional and rational drug design.
5. Write a note on antisense technologies.
6. Why virtual screening techniques are having limitations in drug discovery process explain with example.
7. Explain partial least square analysis.
