

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

[M.PHARM 1223]

DECEMBER 2023
(OCTOBER 2023 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. What are OMICS? Write its application in drug discovery program. How knowledge of OMICS can be applied in target identification? Explain with example.
2. What is meant by docking? Explain different methods of docking with suitable example. Among the docking methods which is the best method of docking and why?

II. Write notes on:

(7 x 5 = 35)

1. Write a note on homology modeling.
2. Write a note on High throughput screening.
3. What are the properties of drug likeness? Why it is important?
4. What is mean by 3D pharmacophore? Write its application in drug discovery.
5. Write a note on rational drug design.
6. How ADME property of a drug can be improved through pro drug concept? Explain.
7. What is PLS? How it is calculated?
