

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

[M.PHARM 0823]

**AUGUST 2023
(APRIL 2023 EXAM SESSION)**

Sub. Code: 2943

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New Regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER III - ADVANCED MEDICINAL CHEMISTRY**

Q.P. Code: 262943

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. (a) Write about basic concept of Analog design.
(b) Explain the bioisosteric replacement strategies of Analog design.
2. (a) Explain the causes of Drug resistance.
(b) Explain the strategies to combat drug resistance in anticancer therapy.
(c) Give an account of biosynthesis of Thromboxones.

II. Write notes on:

(7 x 5 = 35)

1. Brief note on enzyme kinetics in design of enzyme inhibitors.
2. Explain the importance and Applications of pro drug design.
3. Describe about ion-channel receptors.
4. Give an account of therapeutic values of peptidomimetics.
5. Explain the forces involved in drug receptor interactions.
6. Write SAR, mechanism of action and synthesis of ACE inhibitors.
7. Write notes on validation and diversity of drug targets.
