

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

[M.PHARM 0524]

**MAY 2024
(APRIL 2024 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. Enumerate the medicinal chemistry aspects describing the classification, mechanism of action, structure, SAR and synthesis of any two antineoplastic agents.
2. Discuss elaborately about the aspects involved in the Rational design of enzyme inhibitors.

II. Write notes on:

(7 x 5 = 35)

1. Write the theories of drug receptor interaction.
2. Write note on COX1 inhibitors.
3. Briefly explain the enzyme kinetics.
4. Discuss about the chemistry of Prostaglandins.
5. Write note on stereo selectivity in therapeutic agents.
6. Short note on rational use of prodrug design.
7. Explain the design and medicinal aspects of peptidomimetics.
