

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

[LQ 0121]

JANUARY 2021

Sub. Code: 2943

(APRIL 2020 EXAM SESSION)

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. Discuss the rationale of pro drug design and practical considerations of pro drug design.
2. a) Explain the principle of enzyme inhibitors. Give suitable examples.
b) Discuss the chemistry of prostaglandins and leukotriens.

II. Write notes on:

(7 x 5 = 35)

1. Drug receptor interactions.
2. SAR of H₁ & H₂ receptor antagonist.
3. Role of enantioselectivity in drug absorption.
4. Design of peptidomimetics by manipulation of aminoacids.
5. Causes of drug resistance.
6. Types of receptors.
7. Bioisosteric replacement strategies with examples.
