

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

[LO 943]

MAY 2019

Sub. Code: 2943

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-I
BRANCH II – PHARMACEUTICAL CHEMISTRY – MPC
PAPER III – ADVANCED MEDICINAL CHEMISTRY

Q.P. Code : 262943

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Discuss the stages of drug discovery.
b) Discuss the different types of receptors.
2. a) Explain the principles of analog design.
b) Discuss the chemistry of COX₂ inhibitors.

II. Write notes on:

(7 x 5 = 35)

1. Artificial enzymes.
2. Role of prodrug to improve drug solubility.
3. Role of enantioselectivity in drug distribution.
4. Modification of peptide back bone.
5. Genetic principles of drug resistance.
6. Enzyme inhibitors in medicine.
7. SAR of anticonvulsant drugs.
