

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

[LO 345]

MAY 2019

Sub. Code: 2906

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH II – PHARMACEUTICAL CHEMISTRY
PAPER III – ADVANCED MEDICINAL CHEMISTRY**

Q.P. Code : 262906

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Explain various physiochemical parameters involved in a QSAR Study.
b) Write a note on 3D QSAR approaches.
2. Briefly explain the medicinal chemistry aspects of anticancer agents with special emphasis of classification, mechanism of action, structure and synthesis of any one drug from each class.

II. Write notes on:

(10 x 6 = 60)

1. Explain in detail about the bio-isomeric approach of analog design with examples.
2. Discuss briefly about various classes of antiviral agents.
3. Immunosuppressants.
4. Elaborate briefly about covalent enzyme inhibitors.
5. SAR of ACE inhibitors.
6. Outline various aspects on gastric proton pump inhibitors.
7. Describe briefly on drug receptor interaction.
8. Brief out the practical applications of prodrug design.
9. Explain the biosynthesis of prostaglandins.
10. Explain manufacturing methods of pheniramine maleate.
