

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

[LP 345]

OCTOBER 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. Describe in detail the various approaches of pro drug design.
2. a) Define antiretroviral agent. Classify them with suitable example.  
b) Discuss the mechanism of action, synthesis of anyone drug from any 3 category of Antiretroviral agents

**II. Write notes on:**

**(10 x 6 = 60)**

1. Write a note on molecular mechanics.
2. Discuss the role of enantioselectivity in drug absorption.
3. Give an account of strategy involved in fragments of lead molecule in analogue design.
4. Briefly explain the Hansch analysis.
5. Explain the manufacturing method of paracetamol.
6. Describe the test assay for studying the gastric acid inhibitors.
7. Brief note on theories of receptors.
8. Write a note on enzyme inhibitors in medicine.
9. Write the structure and uses of any two clinically useful prostaglandins.
10. Write a note on immuno stimulants.

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