

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

[LN 352]

OCTOBER 2018

Sub. Code: 2913

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH IV – PHARMACOLOGY
PAPER IV – DRUG DESIGN AND MOLECULAR PHARMACOLOGY**

Q.P. Code : 262913

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Discuss about novel approaches in drug discovery.
b) Discuss briefly the fundamentals of QSAR.
2. a) Describe different techniques used for gene transfer.
b) Explain the applications of gene therapy.

II. Write notes on:

(10 x 6 = 60)

1. Explain short note on biosensors.
2. Describe the Recombinant DNA technology.
3. What is soft drug? Explain their concepts.
4. Explain different steps of cell signaling mechanism.
5. Express the note on Rational Drug design.
6. Write note on theories of drug receptor interactions.
7. What is Pharmacogenomics? Explain their importance.
8. Enumerate the drawbacks of prodrug.
9. Write a note on oxidation-reduction potential.
10. Write a note on 2D Pharmacophore.
