

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

[M.PHARM 0922]

**SEPTEMBER 2022
(APRIL 2022 EXAM SESSION)**

Sub. Code: 2984

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New regulations 2016)
PHARMACOLOGY – MPL
PAPER IV - CELLULAR AND MOLECULAR PHARMACOLOGY**

Q.P. Code : 262984

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Principles and applications of genomics and any two proteomic tools.
2. Write in details about cell signaling.

II. Write notes on:

(7 x 5 = 35)

1. ELISA and western blotting.
2. Various types of gene transfer techniques.
3. Pharmacogenomics.
4. Types of immunotherapeutics.
5. Various types of cell culture.
6. Biosimilars.
7. Calcium influx assays.
