

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

[M.PHARM 0922]

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

Sub. Code: 2968

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New regulations 2016)
PHARMACEUTICAL BIOTECHNOLOGY - MPB
PAPER IV – BIOLOGICAL EVALUATION OF DRUG THERAPY**

Q.P. Code : 262968

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss about preclinical drug evaluation methods in animals. Add a note on teratogenicity and Genotoxicity tests.
2. Discuss the biological category of medicines used in the treatment of Autoimmune and Infectious diseases.

II. Write notes on:

(7 x 5= 35)

1. Methods of bioavailability measurement.
2. Methods for pyrogen detection.
3. Methods to overcome challenges in the delivery of biopharmaceuticals.
4. Principle and applications of microbiological assay.
5. Organ Transplantation.
6. In-vitro and In-vivo models for diseases.
7. Growth factors and Gene therapy in medicine.
