

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

[MD 0723]

**JULY 2023
(MAY 2023 EXAM SESSION)**

Sub. Code: 2022

M.D. DEGREE EXAMINATION

BRANCH VI – PHARMACOLOGY

**PAPER I – GENERAL PHARMACOLOGY, EXPERIMENTAL
PHARMACOLOGY AND BIOASSAY**

Q.P. Code: 202022

Time: Three Hours

Maximum: 100 Marks

I. Essay: (2 x 15 = 30)

1. Write in detail on Ion Channels as molecular target of drug action with examples.
2. Evaluation of Anti-inflammatory and Analgesic effect in animal models.

II. Short notes: (10 x 5 = 50)

1. Brief on Quantal Dose – Response Curves. Add a note on methods to overcome its limitations.
2. Uses of Guinea Pig as an Experimental Animal.
3. High Performance Liquid Chromatography.
4. Write in detail on Nuclear Receptors as target of drug action with examples.
5. Principles and indications of Bioassay.
6. Write in detail on alternatives to Animal Experiments.
7. Euthanasia.
8. Chronopharmacology.
9. Isobologram.
10. Therapeutic Drug Monitoring implications and limitations.

III. Reasoning Out: (4 x 5 = 20)

1. Pharmacokinetics versus Toxicokinetics.
2. Apparent volume of distribution justify.
3. Matching Assay versus Bracketing Assay.
4. Role of Partial agonists in drug therapy.
