

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

**[MD 1223]**

**DECEMBER 2023  
(OCTOBER 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. Enumerate different types of Receptors. Explain the various signal transduction mechanisms.
2. Write about the Animal models for the study of Anti Obesity drugs.

**II. Short notes:**

**(10 x 5 = 50)**

1. Toxicokinetics.
2. Drug Antagonism and its clinical relevance.
3. Beneficial Drug Interactions.
4. Pharmacoepidemiology.
5. Certain Safety factor.
6. Rational Drug Designing.
7. Patch Clamp Technique.
8. Stress Ulcer models for Anti Gastric Ulcer evaluation.
9. Factorial Anova.
10. Spectrophotometry.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Discuss about the techniques helpful to reduce Poly Pharmacy.
2. Applications of Transgenic animals.
3. Role of Placebo in clinical Trials.
4. Compare Graded Dose Response Curve with Quantal Dose Response Curve.

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