

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

**[MD 1022]**

**OCTOBER 2022**

**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. a) Explain the screening methods for diuretic activity.  
b) Write briefly about cumulative dose response curve.
2. a) Discuss how various genetic factors can influence drug action?  
b) Write briefly about Gene therapy.

**II. Short notes:**

**(10 x 5 = 50)**

1. National formulary of India.
2. pA2 value.
3. Cytokine receptors.
4. Dose fixing strategies.
5. Bioavailability studies.
6. Placental barrier.
7. Assay designs.
8. ANOVA.
9. Meta-analysis.
10. Combinatorial chemistry.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Advantages of rectal route.
2. Advantages of using prodrugs.
3. Use of beta blockers for hypertension.
4. Use of erythropoietin for anaemia in renal failure.

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