

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

[MD 0522]

MAY 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. Describe the basic mechanism of membrane transport.
b. Explain the role of membrane transporters in therapeutic drug response.
2. Discuss the various screening methods for anticancer agents.

II. Short notes:

(10 x 5 = 50)

1. Pharmacoeconomics.
2. Medication errors.
3. Multiple point assay.
4. Cell culture techniques.
5. Experimental models for screening of drugs used in peptic ulcer.
6. Small molecule drugs.
7. High throughput screening.
8. Serious Adverse Event.
9. Pharmacogenomics.
10. Induction of drug metabolism.

III. Reasoning Out:

(4 x 5 = 20)

1. Importance of preclinical data in calculating first human dose.
2. Role of physiological salt solution in bioassay.
3. Research misconduct and its implications.
4. Significance of sample size in clinical trials.
