

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

[MPHARM 0122]

**JANUARY 2022  
(APRIL 2021 EXAM SESSION)**

**Sub. Code: 2912**

**M.PHARMACY DEGREE EXAMINATION  
FIRST YEAR  
BRANCH IV – PHARMACOLOGY  
PAPER III–BIOLOGICAL STANDARDISATION AND  
PHARMACOLOGICAL SCREENING METHODS  
*Q.P. Code: 262912***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Enumerate the different Screening methods for anti-depressant drugs, and explain any three methods.
2. a) Explain the importance of alternative experimental models in preclinical research.  
b) List the methods available to induce diabetes experimentally in Rats? Describe any one method for screening of New Anti Diabetic Compounds.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Write the screening methods for Anticonvulsant drugs and brief any one.
2. Describe the acute and sub acute toxicity testing in experimental animals.
3. Write the screening methods of analgesic drugs, and explain any one.
4. Write about separation techniques involved in production of immunoassay reagents.
5. What are the experimental methods of induction of Hepatotoxicity in Rats? Brief any one.
6. Enumerate various screening methods of free radical scavenging activity.
7. Write a note on importance of bioassay in pharmacological screening.
8. Brief note on Primary cultures used in cell line studies.
9. Write a short note on anticancer screening methods.
10. Enumerate the screening methods of drugs used Alzheimer's disease.

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