

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

[LO 351]

MAY 2019

Sub. Code: 2912

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH IV – PHARMACOLOGY
PAPER III – BIOLOGICAL STANDARDISATION AND PHARMACOLOGICAL
SCREENING METHODS**

Q.P. Code : 262912

Time : Three hours

Maximum : 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Describe in detail the different *in vivo* models employed in the screening of anti-arrhythmic drugs.
2. *In vitro* and *In vivo* models used for screening anticancer drugs.

II. Write notes on: **(10 x 6 = 60)**

1. Various methods of breeding of laboratory animals.
2. Screening methods for drugs used in Parkinsons disease.
3. Preparation and maintenance of cell lines.
4. General principles of immunoassays.
5. Role of transgenic animal models in preclinical research.
6. Euthanasia.
7. Paired -t- test and student t- test.
8. Conditioned avoidance test.
9. Acute toxicity studies.
10. Models used in drug absorption studies.
