PAPER ID-411509

Subject Code: MPL103T

Roll No: | | | | | | | | | | | | |

MPHARM

(SEM I) THEORY EXAMINATION 2023-24

PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a.	Suggest the major uses of transgenic animals
b.	Name the various methods for evaluation of anti-ulcer activity of a drug.
c.	Suggest the use of photoactometer.
d.	What is the use of Y maze apparatus?
e.	What are inbreeding animals?
f.	Write different euthanasia and anesthesia procedures used for experimental animals.
g.	Mention the various animal models for screening of anti-inflammatory agents.
h.	Explain the limitations of animal experimentation
i.	Mention the principles of Immunoassay for digoxin
j.	Name the models commonly used for detection of ant atherosclerotic potentiality of a compound.

SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a.	Explain the process of production, maintenance and applications of transgenic animals
b.	How will you conduct preclinical screening of a new molecule for its use in the treatment of Parkinsonism disease?
c.	Enlist various methods to induce hyperlipidemia. Explain the importance of High fat diet in pharmacological screening process.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a.	How will you screen a molecule for antidiabetic activity in your laboratory?
b.	Describe the screening procedures to determine antiarryhtmic activity.
c.	Explain the role of Guinea pig ileum and Rat uterus in pharmacological screening.
d.	Enlist different models for induction of type 2 diabetes mellitus. Explain in vivo methods in detail.
e.	Write short notes on hepatoprotective screening models commonly used in laboratories
f.	Suggest the methods you may use to screen compounds for antifertility effect.
g.	Discuss the principle, scope, limitations, and methods of bioassay.