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MPHARM
(SEM I) THEORY EXAMINATION 2021-22
PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-I

*Time: 3 Hours**Total 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.	What is CPCSEA?
b.	Write different euthanasia and anesthesia procedures used for experimental animals.
c.	Mention the various animal models for screening of antiinflammatory agents.
d.	Define preclinical study.
e.	Suggest the applications of transgenic animals.
f.	List out screening methods for diuretics and histamine antagonists
g.	What is the use of actophotometer?
h.	What are inbreeding animals?
i.	What is the role of pole climbing apparatus ?
j.	Write about some alternatives to animal experimentation

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

a.	Explain the various screening methods of Immunosuppressants and immunostimulants
b.	Describe detail principle, methods , advantages and disadvantages of bioassay
c.	Describe the screening methods of Antiparkinsonian agents.

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.	Explain the importance of Phrenic nerve and diaphragm of rat in screening
c.	Describe the screening procedures to determine antiarrhythmic activity.
d.	Explain the role of Guinea pig ileum and Rat uterus in pharmacological screening.
e.	Explain any two in-vitro screening methods for anticonvulsant activity.
f.	How will you screen agents for anti-fertility activity?
g.	Describe the various methods of in-vitro screening for anticonvulsant activity of a compound