Paper ID : 250335

Roll No:

BPHARM
(SEM VIII) THEORY EXAMINATION 2024-25
EXPERIMENTAL PHARMACOLOGY

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.	List different routes of drug administration in lab animals
b.	Give two screening models for sympathomimetics.
c.	What are sham control groups?
d.	Give one model each for screening antipyretic and analgesic drugs.
e.	Define euthanasia.
f.	What are anti-dyslipidemic agents?
g.	Define dose calculation.
h.	Mention any two drugs acting on the eye.
i.	List housing requirements for small rodents.
j.	Define null hypothesis.

SECTION B

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

a.	Explain in detail the OECD and CPCSEA guidelines for the maintenance and breeding of laboratory animals.
b.	List the commonly used methods to screen an agent for skeletal muscle relaxants agents. Discuss two in-vivo methods.
c.	Describe various statistical methods used in data interpretation.

SECTION C

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

a.	Write a note on graphical presentation of experimental data.
b.	Explain the models for screening anti-diabetic drugs.
c.	Describe the use to transgenic animals in preclinical screening
d.	Explain the rationale for the selection of species and sex of animals in preclinical studies.
e.	Discuss the process of topic selection in research.
f.	Mention the objectives of CPCSEA. Write the composition and responsibilities of IAEC.
g.	Describe any one preclinical screening method for diuretic activity.