

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 8 EXAMINATION – SUMMER-2025

Subject Code: BP810TT

Date: 14-05-2025

Subject Name: Experimental Pharmacology

Time: 10.30 AM TO 01.30 PM

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Enlist and write any one screening models use for evaluation of analgesic drugs. **06**
(b) Explain about estrus cycle in rats. **05**
(c) Explain rationale for selection of animal species and sex for study. **05**
- Q.2** (a) Discuss in details about CCSEA guideline for experimental animal care. **06**
(b) Enlist and explain methods use for euthanasia in experimental animals. **05**
(c) Write principle and evaluation parameter for:
i) Cook's pole apparatus ii) Actophotometer. **05**
- Q.3** (a) Discuss in detail Lipschitz model for evaluation of diuretics. **06**
(b) Enlist and any one model use for anti-ulcer activity **05**
(c) Explain in brief about tests use in biostatistics. **05**
- Q.4** (a) Enumerate models use for screening of antiparkinson activity. Explain MPTP models in details. **06**
(b) Enlist screening models for type I and type II Diabetes. Explain the role of Alloxan in Diabetes. **05**
(c) Enlist and explain one model use for anti-asthmatics. **05**
- Q.5** (a) Write a note on screening models of antihypertensive agents. **06**
(b) Enlist various models of antiepileptic activity and explain PTZ model. **05**
(c) Write a note on Lagendorff heart preparation. **05**
- Q.6** (a) Give experimental use of following experimental animals: **06**
1) Rabbit 2) Chinese hamster 3) Guinea Pig
(b) Give brief outline for screening models use in antipsychotic and give details of conditional and unconditional avoidance. **05**
(c) Discuss models use for evaluation of skeletal muscle relaxants. **05**
- Q.7** (a) Write a note on evaluation methods for Parasympathetics. **06**
(b) Explain different models use for careening of anticancer activity. **05**
(c) Write a note on transgenic animal use in Preclinical Research. **05**
