Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER– 8 EXAMINATION – SUMMER -2023

Subject Code: BP810TT **Date: 30/06/2023**

Subject Name: Experimental Pharmacology

Time:10.30 a.m. to 1.30 p.m. **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)**	Write Statical Consideration For Preclinical Studies.	**06**
	(b)	Write note on Common Blood Techniques	**05**
	(c)	What is Difference between Euthanasia & Anesthesia? Give Suitable Examples of Chemicals/Drugs.	**05**
Q.2	**(a)**	Role of Transgenic animals in evaluation of drugs.	**06**
	(b)	Write note on 3R theory.	**05**
	(c)	Write note on Rationale for selection of animal species and sex for the study.	**05**
Q.3	**(a)**	Briefly Explain about Evaluation of Anticonvulsant Drugs	**06**
	(b)	Write note on Spare Receptors.	**05**
	(c)	Importance of Sham negative and Positive Control group in Preclinical Screening Models.	**05**
Q.4	**(a)**	Eneumerate Different Animal Modles for Antiulcer Activity. Write in Detail about Pylorus Ligation Model.	**06**
	(b)	Discuss the various Experimental Models used for Anti-Psychotic Drugs	**05**
	(c)	Discuss the Steps to estimate Human Starting Dose based on Animal Studies.	**05**
Q.5	**(a)**	Eneumerate Different Animal Modles for AntiAsthamatics Activity. Write in Detail about Mast Cell Stabilization Method.	**06**
	(b)	Evaluation of Skeletal Muscle Relaxant drug .	**05**
	(c)	Explain Carranegenan Induced Rat Paw Edema Model for Evaluation of Anti-inflammatory Activity.	**05**
Q. 6	**(a)**	Enumerate Commonly used Laboratory Animals. Explain About any Animal Species with its Application in Preclinical Research.	**06**
	(b)	Evaluation of Anticonvulsant drugs.	**05**
	(c)	Discuss the various Experimental Models used for Analgesic Drugs	**05**
Q.7	**(a)**	Discuss the Experimental method for Evaluation of Ant diabetic Drugs	**06**
	(b)	Explain ANOVA and its applications.	**05**
	(c)	Explain different types of hypothesis. Explain type I and type II errors, level of significance, and P value.	**05**

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