Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM - SEMESTER–VIII • EXAMINATION – WINTER-2022

Subject Code:BP810TT Date: 23/12/2022

Subject Name: Experimental Pharmacology

Time: 02:30PM TO 05:30PM 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 a note on: CPCSEA guidelines for maintenance, breeding and conduct of experiments on laboratory animals.	**06**
	(b)	Discuss the principle and use of cook's pole apparatus and analgesiometer.	**05**
	(c)	Enlist various methods for evaluation of local anesthetic agents. Explain any one.	**05**
Q.2	**(a)**	Write a brief note on routes of drug administration and euthanasia techniques used for experimental animals.	**06**
	(b)	Write briefly in-vivo methods to evaluate anti-asthmatic drugs.	**05**
	(c)	Enumerate Antihyperlipidemic evaluation methods. Describe any one in detail.	**05**
Q.3	**(a)**	Enlist in-vivo and in-vitro methods for evaluating anti- inflammatory activity. And explain the method in which plethysmometer is used.	**06**
	(b)	Write principle and evaluation parameters for: 1. Rota Rod apparatus 2. Combined Open field test	**05**
	(c)	Write a note on screening models of Anti hypertensives.	**05**
Q.4	**(a)**	Enlist the different models for evaluation of Antiulcer activity. Describe any one in detail.	**06**
	(b)	Enlist various models for evaluation of antiparkinson activity. Explain MPTP model in detail.	**05**
	(c)	Enlist different methods for screening of diuretic activity. Write a note on metabolic cages.	**05**
Q.5	**(a)**	Enlist various methods for evaluation of antiepileptic activity. Explain MES and PTZ methods in detail.	**06**
	(b)	Enlist various methods for induction of diabetes in experimental animals. Explain STZ induced diabetes in rats in brief.	**05**
	(c)	Write a note on: Graphical representation	**05**
Q. 6	**(a)**	Write a note on evaluation methods for Parasympathomimetics.	**06**
	(b)	Explain different vitro models for screening of anticancer activity.	**05**
	(c)	Write a note on Lagendorff heart preparation.	**05**
Q.7	**(a)**	Write a brief note on: Review of Literature and Hypothesis.	**06**
	(b)	Enlist various models for evaluation of antiarrythmic activity. Explain any one model in detail.	**05**
	(c)	Write a note on screening methods for anti-pyretic activity.	**05**

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