

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 antiarrhythmic activity. Explain any one model in detail. **05**
- (c) Write a note on screening methods for anti-pyretic activity. **05**
