

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER-2024****Subject Code:BP810TT****Date: 03/05/2024****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) Enlist the different models for evaluation of Antiulcer activity. Describe pylorus ligation method in detail. **06**
- (b) Explain different vitro models for screening of anticancer activity. **05**
- (c) Write briefly in-vivo methods to evaluate anti-asthmatic drugs. **05**
- Q.2** (a) Enlist various models for evaluation of antiparkinson activity. Describe any one in detail. **06**
- (b) Enlist the different models for evaluation of Analgesic activity. Describe hot plate method in detail. **05**
- (c) Write a note on screening models of Anti hypertensives. **05**
- Q.3** (a) Write a short note on CPCSEA guidelines for maintenance, breeding and conduct of experiments on laboratory animals. **06**
- (b) Describe different methods of euthanasia. **05**
- (c) Write about rationale for selection of animal species and sex for the study. **05**
- Q.4** (a) Enlist various methods for induction of diabetes in experimental animals. Explain STZ induced diabetes in rats. **06**
- (b) Describe the description and application of rat in experimental pharmacology. **05**
- (c) Write a short note on common routes of drug administration in laboratory animals. **05**
- Q.5** (a) Enlist different preclinical screening methods of sedative and hypnotics. Describe combined open field test in details. **06**
- (b) Enlist various methods for evaluation of antiepileptic activity. Explain MES and PTZ methods in detail. **05**
- (c) Describe the different methods of local anesthesia. **05**
- Q. 6** (a) Write a brief note on: Review of Literature and Hypothesis. **06**
- (b) Write a principle and evaluation parameters for:  
i) Actophotometer ii) Rota-rod apparatus **05**
- (c) Enlist various models for evaluation of anti-alzheimer activity. Describe any one in detail. **05**
- Q.7** (a) Write a note on evaluation methods for sympathomimetics. **06**
- (b) Write a short note on one-way ANOVA. **05**
- (c) Write a note on Lagendorff heart preparation. **05**

\*\*\*\*\*