Seat No.:	Enrolment No.
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**Subject Code: BP810TT** 

## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. Ph. SEMESTER – VIII-EXAMINATION – SUMMER-2022

Ti	me: truct 1. A 2. I	Name: Experimental Pharmacology  10:30am to 01:30pm  Total Marks: 8  ions:  Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	<b>30</b>
Q.1.	<b>(b)</b>	List out the different laboratory animals (indicate species and strains) used for Preclinical experiments. Discuss in brief the applications of Rat.  Write in brief about use of transgenic animals in Preclinical Research.  What is euthanasia? Discuss CPCSEA approved methods of euthanasia.	06 05 05
Q.2.	<b>(b)</b>	Explain the following in brief (any two):  1.Sham and Positive Control 2. Human Equivalent Dose 3. Research Hypothesis Write a note on the student's 't' test.  Discuss the animal/preparation preferred for preclinical evaluation of the following:  1. Antihistamines 2. Intradermal local anesthetics 3. Mydriatics  4. NSAIDs 5. Breast cancer	06 05 05
Q.3.	<b>(b)</b>	Enumerate models used for screening of Parasympatholytics. Discuss any one in vivo model.  Discuss in brief in vitro methods for screening of sympathomimetics  Discuss the pharmacological evaluation of Neuromuscular blockers.	06 05 05
Q.4.	<b>(b)</b>	Enumerate methods for evaluation of Antialzheimer agents. Discuss the parameters used for assessment of Alzheimer's disease in preclinical models.  Outline the models used for screening of antidepressants. Write in brief about the Porsolt test.  Discuss in brief the evaluation of sedatives.	<ul><li>06</li><li>05</li><li>05</li></ul>
Q.5.	<b>(b)</b>	Classify the methods used for evaluation of analgesics. Describe the thermal method in brief.  List out methods for screening of antiepileptics. Discuss in detail MES model. Enlist the models used for Antiparkinson activity. Discuss in detail the MPCP model.	06 05 05
Q.6.	<b>(b)</b>	Enumerate animal models of type I Diabetes. Discuss the use of Streptozotocin in preclinical research.  Enumerate models used for hypertension. Describe surgically induced hypertension models in brief.  Enumerate models used for screening of Antiasthmatics. Discuss any one method for evaluation of Bronchodilators.	06 05 05
Q.7.	<b>(b)</b>	Explain the use of following in Preclinical screening: (any two)  1. Cooke's pole 2. Morris Water Maze 3. Plethysomometer Discuss in detail the Lipschitz model for evaluation of diuretics. Enumerate the models used for inducing dyslipidemia. Discuss in brief Triton induced model.	06 05 05

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Date: 04/06/2022