

QP Code: 830006

Reg. No.....

**Eighth Semester B. Pharm Degree Supplementary Examinations  
December 2023  
Experimental Pharmacology  
(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

**Essays**

**(2x10=20)**

1. Explain two models to screen anti-cancer activity of test compounds.
2. Explain animal models of acute and chronic inflammation to test the anti-inflammatory activity of compounds.

**Short Notes**

**(7x5=35)**

3. Write the principle of an electrically induced seizure model to test anti-convulsant activity.
4. Write a note on the maintenance of animals as per CPCSEA.
5. Explain a chemically-induced model of diabetes in rats.
6. Write about any two stress-induced ulcer models in rats.
7. Write the uses of rota-rod test in experimental pharmacology.
8. One animal model to test the activity of atropine-like drugs.
9. Differentiate transgenic and mutant animals.

**Answer Briefly**

**(10x2=20)**

10. Write the importance of positive control.
11. List two applications each, for hamsters and monkeys in experimental pharmacology.
12. List two methods of euthanasia followed earlier, which are now considered unethical as per CPCSEA standards.
13. What are the characteristic feature and application of db/db mice.
14. Explain the method that allows collection of large volume (> 5 ml) of blood from rats.
15. Interpret the absence of corneal reflex after instilling a test drug in the eye.
16. Name two classes of compounds that can contract rat fundus muscles.
17. List two animal models/tissues and their corresponding responses to evaluate sympathetic activity.
18. When do you use unpaired 't' test to analyze data.
19. What are ex-vivo studies.

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