

QP Code: 830006

Reg. No.....

**Eighth Semester B. Pharm Degree Regular Examinations May 2022
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 methods to screen anti-ulcer activity of test compounds.
2. Write in detail, the principle and procedure of Eddy's hot plate and writhing tests.

Short Notes

(7x5=35)

3. A preclinical model to test anti-depressant activity of test compounds.
4. Explain the 3-Rs in research involving animals. List the ways to implement them.
5. One rodent model to test anti-dyslipidaemic activity.
6. Metabolic cages and its applications in experimental pharmacology.
7. A procedure to test local anaesthetic activity using a rabbit model.
8. With suitable examples, explain null and alternate hypotheses in research.
9. Explain how sympathomimetics can show either an increase or decrease in dog blood pressure.

Answer Briefly

(10x2=20)

10. What is the importance of sham control.
11. List two applications each, for rats and rabbits in experimental pharmacology.
12. Write about two CPCSEA approved methods of euthanasia in rodents.
13. Write the characteristic feature and application of ob/ob mice.
14. Two routes of blood collection from rats.
15. A test drug abolishes light reflex after instilling in the eye. Write inference about the activity of the test drug.
16. Name two classes of compounds that can contract uterine smooth muscles.
17. Write the applications of actophotometer.
18. When do you use paired 't' test to analyze data.
19. Write the difference between *in-vitro* and *in-vivo* preclinical studies.
