QP Code: 830006 Reg. No.....

Eighth Semester B. Pharm Degree Regular/Supplementary Examinations July 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. What are the objectives of research methodology. Write the steps involved in the process of a systematic literature review.
- 2. Briefly explain:
 - PTZ induced convulsions model in mice.
 - Techniques of euthanasia in common laboratory animals.

Short Notes (7x5=35)

- 3. Classify common laboratory animals. Mention the applications of *danio rorio* in biomedical research.
- 4. Explain MTT assay.
- 5. *Mus musculus* as a common laboratory animal. Mention the bleeding and anesthesia techniques in *Rattus norvegicus*.
- 6. Describe the breeding methods in rodents.
- 7. Principle and procedure for Tail suspension test for antidepressant activity.
- 8. Explain the *in-vivo* method of sodium nitrite-induced amnesia test.
- 9. Explain the CPCSEA guidelines on maintenance of laboratory animals.

Answer Briefly (10x2=20)

- 10. Differentiate rodents and non-rodents.
- 11. Compare Wistar rats and Sprague-Dawley rats.
- 12. Enlist four screening methods for CNS stimulants.
- 13. Choice of rabbit in toxicological research.
- 14. Uses and types of student's t-test.
- 15. Procedure for collection of blood from cardiac puncture in rat.
- 16. Procedure for inhibition of apomorphine climbing in mice model.
- 17. Write the difference between *in-vitro* and *in-vivo* preclinical studies.
- 18. Concepts of '3Rs' in preclinical studies.
- 19. Differentiate in-bred and outbred-strains.
