

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19PZOL1C03 - ECOLOGY AND ETHOLOGY**

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**Answer any ***four*** questions. Each question carries 2 weightage.

1. What are energy flow models?
2. What is protocooperation?
3. What is semiarid zone?
4. Explain the merits and demerits of interlinking of major rivers in India.
5. Explain instinctive behaviour.
6. Comment of circadian rhythm in animals.
7. Role of oxytocin in animal behaviour.

**(4 × 2 = 8 Weightage)****Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Explain carbon cycle.
9. Describe life history strategies and interdemic extinctions.
10. Differentiate between tundra and savanna biomes.
11. Explain carbon credit.
12. Write note on ethological aspects of conflict behaviour.
13. Write short note on role of navigation in migration of animals.
14. What is selfish gene theory? Explain the concept of altruism and inclusive fitness.

**(4 × 3 = 12 Weightage)**

### **Part-C**

Answer any ***two*** questions. Each question carries 5 weightage.

15. Give a detailed account on population density estimation methods in animals and ranging patterns through direct/ indirect observations
16. Write an essay on characteristics of biotic community.
17. Write an essay on major approaches in conservation biology.
18. Write an essay on mating systems. Comment on strategies of parental care.

**(2 × 5 = 10 Weightage)**

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