

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023
(Regular/Improvement/Supplementary)

ZOOLOGY
FZOL2C05: ECOLOGY & ETHOLOGY

Time: 3 Hours

Maximum Weightage: 30

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

1. What is biodiversity hotspot? Cite examples from India.
2. Write notes on r and k selected species.
3. What is resource partitioning and character displacement?
4. Give a short note on the role of project tiger in Indian conservation strategies?
5. What is carbon credit? Mention its significance.
6. Explain briefly Altruism.
7. Comment on stimulus filtering and supernormal stimuli.

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries 3 weightage.

8. Write notes on migrations of species in Indian subcontinent.
9. Explain species diversity and its measurements.
10. Discuss briefly on the types of interactions with suitable examples.
11. Distinguish between realized niche and fundamental niche with examples.
12. Enlist the major theories on latitudinal gradients in diversity.
13. What are Ethograms? Explain their significance.
14. Give an account of general factors in motivation.

(4 × 3 = 12 weightage)

Part C: Answer any *two* questions. Each carries 5 weightage.

15. Write an essay on the energy flow and ecosystem energetics.
16. Enumerate the characteristics of a population.
17. Elaborate on major biogeographic zones in India with their features.
18. Write an essay on JP Scott's categories of behaviour.

(2 × 5 = 10 weightage)