

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(Regular/Improvement/Supplementary)

ZOOLOGY

FZOL2C05: ECOLOGY & ETHOLOGY

Time: 3 Hours**Maximum Weightage: 30****Part A: Answer any *four* questions. Each carries 2 weightage.**

1. Write brief notes on imprinting.
2. Comment on Fixed Action Patterns.
3. Write briefly on WGEEP recommendations.
4. What is meant by Blue Carbon?
5. Describe Project Tiger.
6. Discuss edges and ecotones.
7. What is character displacement?

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

8. Elaborate on the social behaviour of primates.
9. Discuss in detail the categories of behaviour according to J.P Scott.
10. Write notes on the role of decomposers and detritivores in the functioning of the ecosystem.
11. Describe various interspecific interactions in a population.
12. Elaborate on the role of latitudinal gradients in species diversity.
13. Write critically on the Sethusamudram Ship canal Project from an ecologist's point of view.
14. Discuss the major drivers of biodiversity change.

(4 × 3 = 12 weightage)**Part C: Answer any *two* questions. Each carries 5 weightage.**

15. Write an essay on the various mating systems among animal groups. Add short notes on parental investment and reproductive success.
16. Discuss the various aspects of ecological succession in detail. Comment on the concept of climax and the different theories put forward about it.
17. Elaborate on the carbon cycle. Discuss the various factors influencing the global carbon cycle.
18. Write an essay on tropical rain forest.

(2 × 5 = 10 weightage)