QP CODE: 25025087

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, MAY 2025

Second Semester

M Sc ZOOLOGY

CORE - ZL010201 - FIELD ECOLOGY

2019 ADMISSION ONWARDS

BFD11BA5

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

Answer any eight questions.

Weight 1 each.

1. How do O2 and CO2 cycle in the ecosystem?
2. What is cybernetic nature of ecosystem?
3. Define density dependent and density independent factors.
4. What is mainland island metapopulation?
5. 'Intraspecific competition should be more severe than interspecific competition, since resource overlap is greater'. Comment on the statement with appropriate examples.
6. Write a short note on a) Cryptic colouration and b) Predator satiation.
7. Write a note on bio filters and trickling filters.
8. Define Wetlands.
9. Explain nonrenewable energy resources with two examples.
10. Comment on ecosystem monitoring.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Comment on the effects of soil development on nutrient level.
12. What are the stages of energy flow in an ecosystem?
13. Describe the three types of dispersion.

14. Write a note on territoriality.

15. What are the different forms of predation?

16. Explain different types of mutualism.

17. Explain the use of biosensors.

18. Explain different forest resources of India.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Write an essay on animal adaptations to thermal and light environment.

20. Write an essay on population fluctuations and cycle.

21. Comment on various types of defense against parasites by host with examples.

22. Write an essay on radioactive pollution and write the methods for the disposal of radioactive waste.

(2×5=10 weightage)