



QP CODE: 25050570



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M Sc ENVIRONMENT SCIENCE AND MANAGEMENT

Core Courses - ES010101 - ECOLOGY AND BIODIVERSITY CONSERVATION

2019 Admission Onwards

ADE04652

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Distinguish between sedimentary cycle and gaseous cycle.
2. What are coral reefs ?
3. Explain realised mortality.
4. What are r-selected organisms ?
5. Access genetic drift.
6. List the various methods for productivity measurements.
7. Distinguish between mutualism and commensalism.
8. Analyse on Pugmark Census.
9. Discuss on the objectives of CBD.
10. Explain co-evolution.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. What is Gaia hypothesis, evaluate in the modern context ?
12. Examine the various floristic regions of the world.
13. How Ecads differ from Ecotypes ?
14. Discuss the history of human population growth.
15. Examine the significance of ecotone.





16. Distinguish between primary succession and secondary succession.
17. Make use of Simpson and Shannon Wiener Index for calculating diversity.
18. Examine the causes of biodiversity depletion.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. What is global warming? Describe causes, effects and methods to reduce it.
20. What are the characteristics of lentic and lotic aquatic systems and how organisms are adapted ?
21. Which are the distributional patterns of population and its advantages.
22. Discuss the views on ecological niche by Odum, Hutchinson and Gause.

(2×5=10 weightage)

