

26023765



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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, MAY 2026

Fourth Semester

Faculty of Science

Branch VIII : Zoology - Elective - C - Environmental Science

ZY 4C ET 01—ENVIRONMENTAL SCIENCE—CONCEPTS AND APPROACHES

(2016 – 2018 Admissions—Mercy Chance)

Time : Three Hours

Maximum Weight : 30

Section A (Short Answer Type Questions)

*Answer any **ten** out of twelve.*

Weight 1 each.

1. Rangeland and riparian zone.
2. Drivers of biodiversity loss.
3. Earth's major climatic zones.
4. EIA of biological invasion.
5. Plate tectonics.
6. Biodiversity Management Committee.
7. *El Nino* and *La Nina*.
8. Invisible hydrosphere.
9. Phenotypic plasticity.
10. Eco-tourism.
11. Elton's hypothesis.
12. Structure of earth.

(10 × 1 = 10)

Turn over





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Section B (Short Essay Type Questions)

*Answer any **five** out of eight.*

Weight 2 each.

13. Write an account on the principle and scope of environmental science.
14. Briefly explain the case studies and methodologies on corridor selection problems.
15. Briefly explain the retreat of monsoon in India and its key characteristics.
16. Write an account on Indian Biodiversity Act and laws.
17. Explain land suitability analysis and carrying capacity studies used in urban planning and resource management.
18. Write an account on the origin and composition of sea water. Add a note on the main drivers of sea level changes.
19. Explain in brief the tools and techniques used for biodiversity estimation.
20. Write an account on *In-situ* and *Ex-situ* conservation strategies.

(5 × 2 = 10)

Section C (Long Essay Type Questions)

*Answer any **two** out of three.*

Weight 5 each.

21. Write an essay on classification of climate.
22. Explain in detail the hypotheses for invasion success.
23. Explain the evolution of continents and the types of structural deformation.

(2 × 5 = 10)

