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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2021

Fourth Semester

Faculty of Science

Branch VIII—Zoology–Elective–C–Environmental Science

ZY4CET01—ENVIRONMENTAL SCIENCE : CONCEPTS AND APPROACHES

(2012—2018 Admissions—Supplementary/Mercy Chance)

Time : Three Hours

Maximum Weight : 30

Section A (Short Answer Type Questions)

Answer any **ten** *questions.*
Each question carries a weight of **1.**

1. What is Atmosphere ?
2. Define biodiversity indices ?
3. Comment on *in-situ* conservation ?
4. What is gene bank ?
5. Comment on desertification.
6. What are evolutionary trees ?
7. What is phenotypic plasticity ?
8. Define Elton's hypothesis ?
9. What is nutrient cycling ?
10. Comment on Biodiversity Management Committee (BMC).
11. Differentiate between speciation and extinction ?
12. What is meant by the term 'Biodiversity hot spot' ?

(10 × 1 = 10)

Turn over

Section B (Short Essay Type Questions)

Answer any **five** *questions.*
Each question carries a weight of 2.

13. Give the definition and scope of climatology ?
14. Comment on the role of microbes in soil ?
15. Write briefly on the oceanic and continental influence on monsoon in Kerala ?
16. How biological invasion can be monitored ?
17. Explain the impacts of exotics on biodiversity ?
18. Write a note on the concept of natural selection ?
19. What is Empty niche hypothesis ?
20. List down the types of soil ?

(5 × 2 = 10)

Section C (Long Essay Type Questions)

Answer any **two** *questions.*
Each question carries a weight of 5.

21. Explain the various existing hypotheses for invasion success ?
22. Write a note on the geomorphological processes happening on our planet ?
23. Explain the different strategies of biodiversity conservation (*In-situ, Ex-situ and In-vitro*) ?

(2 × 5 = 10)