QP CODE: 23004165

23004165

Reg No : .....

Name : .....

M Sc DEGREE (CSS) EXAMINATION, JUNE 2023

Fourth Semester

M Sc ZOOLOGY

Elective - ZL810401 - ENVIRONMENTAL SCIENCE:CONCEPTS AND APPROACHES

2019 ADMISSION ONWARDS

4512440E

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Write a short note on Big Bang Theory.
2. Write a short note on Adsorption and exchange of Cations
3. What is meant by seafloor spreading?
4. Define weather.
5. What is the Global circulation of air masses?
6. Comment on riparian ecosystems
7. What is productive use value?
8. What is off-site conservation?
9. Write a note on the Community reserve.
10. Write a short note on Mechanical control of biological invasions.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain Soil Profile.
12. Explain the significance of various atmospheric components.

13. With the help of a neat sketch, explain the various stages of a water cycle.

14. Describe Thornthwaite's scheme of climate classification .

15. Explain the methods of measuring biodiversity using alpha, beta, and gamma diversity spatial scales.

16. Explain biodiversity hotspots and its characteristics.

17. Explain the process of biological invasion.

18. Explain the role of vacant niches on invasion success.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on the influence of pH, turbidity, and light on aquatic life.

20. Write an essay on the impacts of climate change.

21. Write an essay on ecological land degradation.

22. Write an essay on wildlife distribution in India and challenges in its protection.

(2×5=10 weightage)