QP CODE: 26019287

26019287

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc ZOOLOGY

ELECTIVE - ZL810402 - ENVIRONMENTAL POLLUTION AND TOXICOLOGY

2019 Admission Onwards

FBF2A4FE

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Comment on the global aspect of soil pollution.
2. What is air pollution ambient monitoring?
3. What is municipal sewage?
4. Mention the importance of oxidation ponds in biological waste water treatment.
5. Comment on the process of adsorption in advanced waste water treatment.
6. Comment on the importance of proper solid waste management.
7. Comment on Plastic Act 1999.
8. What is ionizing radiation? Give an example.
9. What is a dose-response relationship curve?
10. Mention the role of bioindicators in pollution assessment.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Differentiate primary and secondary air pollutants.
12. Explain the process of coagulation and sedimentation in water purification.
13. Illustrate the soil pollution in highland soils of Kerala using a case study
14. Give an account on plasma pyrolysis. Mention its merits and demerits in MSW management.

15. Write an account on the management of e-waste.

16. Explain the consequences of oil pollution with a case study.

17. Differentiate acute and chronic toxicity.

18. Explain the criteria for the selection of test organism in bioassay methods.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain in detail, the control measures for particulate matter in air pollution.

20. Give an account on hazardous waste compounds that cause soil pollution.

21. What are the common categories of radioactive waste? Explain various disposal methods of radioactive waste.

22. Write an essay on the biochemical aspect of various toxic chemicals in environment.

(2×5=10 weightage)