QP CODE: 23004169

23004169

Reg No : .....

Name : .....

M Sc DEGREE (CSS) EXAMINATION, JUNE 2023

Fourth Semester

M Sc ZOOLOGY

Elective - ZL810402 - ENVIRONMENTAL POLLUTION AND TOXICOLOGY

2019 ADMISSION ONWARDS

5482085B

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Comment on the global aspect of air pollution
2. What is Carbon sequestration? Mention four methods.
3. Comment on the importance of coagulation process in treatment of water.
4. Comment on primary waste water treatment.
5. Write down the principle of reverse osmosis.
6. Give a brief account on Municipal Solid Waste.
7. Comment on the Manufacture Storage and Import of Hazardous Chemicals Rules 1989.
8. Mention any four safety standard measures to be adopted in radiation pollution.
9. What is threshold dose?
10. Comment on the physiological effect of chemical exposure at work.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Describe a 'dust fall container' and mention its significance
12. Explain the industrial and agricultural sources of water pollution.
13. Explain the effects of water pollution on human health.

14. If given an opportunity for selecting between incineration and plasma pyrolysis for hazardous waste management, which one will you select? Explain why?

15. Give an account on the fixation of hazardous solid waste prior to disposal.

16. Briefly explain the effect of radiation pollution on the ecosystem.

17. With the help of suitable diagram, describe LD50 and ED50.

18. Explain the mechanism of Pb toxicity in cell.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain the types of air pollutants and their effects.

20. Write an essay on sewage treatment plants and their importance in sewage treatment.

21. Give an account on the sources, effects and control measures of noise pollution.

22. What is bioassay? Describe the bioassay for finding teratogenicity, carcinogenicity and mutagenicity.

(2×5=10 weightage)