QP CODE: 24018260

24018260

Reg No : .....

Name : .....

# M Sc DEGREE (CSS) EXAMINATION, APRIL 2024

## Fourth Semester

M Sc ZOOLOGY

## Elective - ZL810402 - ENVIRONMENTAL POLLUTION AND TOXICOLOGY

2019 ADMISSION ONWARDS

37FFE45C

Time: 3 Hours Weightage: 30

### Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is PAN?
2. What are natural Carbon sinks? Give two examples.
3. Comment on BOD.
4. Comment on the aerobic process in waste water treatment.
5. What is Ganga Action Plan?
6. What is the importance of transfer stations in MSW management.
7. Comment on Hazardous waste (Management and Handling) Rules 1989.
8. Highlight the effects of thermal pollution on aquatic systems.
9. What is synergic effect?
10. What is quantal response?

(8×1=8 weightage)

### Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the local, regional and global aspects of water pollution.
12. What are the causes of groundwater pollution?
13. Write notes on soil pollution caused by agricultural and industrial sources.
14. Compare and contrast pyrolysis and plasma pyrolysis.

15. Give a note on the responsibilities of Government, industries and citizens in the management of e-waste.

16. Give an account on the control measures of noise pollution.

17. Comment on the effect of Arsenic on cell metabolism.

18. Give an account on the assessment of occupational hazards.

(6×2=12 weightage)

## Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe the air quality standards and monitoring methods for particulate pollutants in air pollution.

20. Write an essay on the control of soil pollution.

21. Write an essay on the impacts of radiation pollution.

22. Describe the bio-transformation of Xenobiotics.

(2×5=10 weightage)