

MSc DEGREE END SEMESTER EXAMINATION- OCTOBER 2025
SEMESTER 3 : ENVIRONMENTAL SCIENCE
COURSE : 24P3EVST09 : ENVIRONMENTAL POLLUTION AND TOXICOLOGY
(For Regular - 2024 Admission)

Time : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. What is biotransformation? (R)
2. Comment on physiological effect of noise pollution. (U)
3. Comment on air quality monitoring methods. (A)
4. List out the different methods that can be adopted to reduce CO₂ in the atmosphere. (U)
5. What are the effects of eutrophication? (U)
6. What is additive effect? (U)
7. Write a short note on recycling of solid waste. (U)
8. Comment on ionizing and non-ionizing radiations. (U)
9. Comment on "soil nutrient as an index for soil quality". (U)
10. Define the term Urbanization. (U)

(1 x 8 = 8)**PART B****Answer any 6 questions****Weights: 2**

11. What are the key considerations for incineration of municipal solid waste? (An)
12. Write a short notes on bioaccumulation and biomagnification with relevant examples. (A)
13. What are the factors responsible for biological damage caused by radiations? (U)
14. Write a note on sampling of particulate air pollutants. (U)
15. Comment on the adverse effects of thermal pollution on the aquatic life with examples. (R)
16. Write a short note on Bio-indicators. (U)
17. COD is an indicator of organic load in water. Explain. (U)
18. Write short notes on the environmental problems faced by the Vembanad wetland ecosystem in Kerala. (U)

(2 x 6 = 12)**PART C****Answer any 2 questions****Weights: 5**

19. Write an essay on particulates and gaseous pollutants in the atmosphere. (U)
20. Discuss elaborately on composting of Municipal Solid Waste. (A)
21. Explain the methods in the fixation of hazardous solid waste prior to disposal. (An)
22. Write an essay on advanced water treatment methods. (A)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
----	----------------------------	----	-----------	-----------

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;