

D4AZL2202

(2 Pages)

Name.....

Reg.No.....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024**  
**(Regular/Improvement/Supplementary)**

**ZOOLOGY**

**FZOL4E11 - ENVIRONMENTAL BIOLOGY-II: ENVIRONMENTAL POLLUTION**

**Time: 3 Hours**

**Maximum Weightage: 30**

**Part A: Answer any *four* questions. Each carries *two* weightage.**

1. What is noise pollution? Comment on its effects and control measures.
2. Distinguish between projected diameter and statistical diameter of particulate matter.
3. What are green house gases? Give a short note on their sources and environmental impacts.
4. What are indicator species? Describe their importance in pollution assessment with examples.
5. What is meant by biological magnification? Explain with illustrations.
6. Comment on Water Act.
7. Discuss the production of biogas.

**(4 × 2 = 8 weightage)**

**Part B: Answer any *four* questions. Each carries *three* weightage**

8. Explain the design and working of any three air pollution abatement techniques in detail.
9. Describe the occurrence, sources and sinks of compounds of carbon, nitrogen and sulfur as primary air pollutants.
10. Evaluate the effects of air pollution on weather, atmospheric conditions, buildings and materials
11. Discuss the sources and effects of thermal pollution on ecosystem with its control measures.
12. What are the biological effects of ionizing radiations? Comment on nuclear waste disposal.
13. Enlist various environmental carcinogens with their sources and effects.
14. Briefly describe different types and sources of solid wastes.

**(4 × 3 = 12 weightage)**

**(P.T.O.)**

**Part C: Answer any *two* questions. Each carries *five* weightage**

15. Describe the sampling and monitoring methods for gaseous compounds of carbon and nitrogen.
16. Evaluate the sources and effects of heavy metals on ecosystem and human population.
17. Give a detailed account on various primary, secondary and tertiary systems used in waste water treatment.
18. Explain different solid waste disposal methods. Mention problems concerned with solid waste disposal.

**(2 × 5 = 10 weightage)**