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# FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022 (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. Describe the sizing and counting of particulate matter.
- 2. What is photochemical smog? Comment on its formation and consequences.
- 3. What are the sources and effects of noise pollution?
- 4. Distinguish between BOD and COD.
- 5. Explain the biological effects of ionizing radiations.
- 6. What is water act? Comment on water quality standards.
- 7. Briefly discuss the generation of biogas.

 $(4 \times 2 = 8 \text{ weightage})$ 

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

- 8. How air is sampled for pollution assessment?
- 9. Write a short essay on the occurrence, sources and sinks of carbon compounds in air as a primary pollutant.
- 10. Discuss briefly the effects of air pollution.
- 11. What is thermal pollution? Explain its sources, effects and control measures.
- 12. What are carcinogens? Survey different types of carcinogens in environment.
- 13. Discuss the design and operation of biological treatment systems adopted for the control of water pollution.
- 14. Describe different types of solid wastes.

 $(4 \times 3 = 12 \text{ weightage})$ 

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

- 15. Discuss the design and working of various air pollution abatement techniques.
- 16. Elaborate the sources of heavy metals and their effects on ecosystem and human population.
- 17. What are biocides? Classify them and explain their effects on ecosystem with special reference to biological magnification.
- 18. Write a detailed essay on various solid waste disposal methods. Add a note on problems of solid waste disposal.

 $(2 \times 5 = 10 \text{ weightage})$