

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020**SEMESTER 4 : ZOOLOGY****COURSE : 16P4ZOOT14EL : ENVIRONMENTAL POLLUTION AND TOXICOLOGY****(For Regular - 2018 Admission & Supplementary 2017/2016 Admissions)**

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. Classify air pollution
2. Write a note on secondary air pollutants.
3. write notes on adsorption
4. What are trickling filters ?
5. Briefly describe advanced oxidation process in waste water treatment
6. What is the ultimate analysis of solid waste components?
7. What is meant by volume reduction in e-waste management?
8. Define bulk density
9. What is the effect of sound pollution in Show whales and European robins?
10. Define radioactive pollution. Comment on the role of nuclear weapons in radioactive pollution.
11. Comment on LD₅₀.
12. Define the term 'Toxin'.

(2 x 8 = 16)

Section B**Answer any 7 (5 marks each)**

13. Write the steps involved in sampling and analysis of SO₂ .
14. Comment on effects of water pollution on aquatic system
15. Write a note on waterborne and water related diseases.
16. Write a note on the various municipal collection services.
17. What are the responsibilities of the government regarding e-waste management?
18. Write a short account on soil enzymes.
19. Write notes on sources of soil pollution
20. Describe the effects of *Exxon Valdez* oil spill on environment and marine animals.
21. Discuss briefly the important sources of radioactive pollution.
22. Discuss the factors that govern the selection of a biological method for 'Biological Monitoring'.

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Discuss the various hazardous waste management practices.
24. Write an essay on the various soil quality indicators.
25. Discuss the sources and adverse effects of noise pollution.
26. Toxicity studies provide valuable information on the degree to which substances are toxic to animals. Discuss.

(12 x 2 = 24)