Reg. No

Name

19P4021

MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019 SEMESTER 4 : ZOOLOGY

COURSE : 16P4ZOOT14EL: ENVIRONMENTAL POLLUTION AND TOXICOLOGY

(For Regular - 2017 Admission and Supplementary - 2016 Admission)

Time : Three Hours

Max. Marks: 75

Section A Answer any 8 (2 marks each)

- 1. Define the term 'Pollution'.
- 2. What is the role of scrubbers in controlling air pollution?
- 3. Define 'electrodialysis'.
- 4. What is the relevance of coliform bacteria in potable water?
- 5. Give a schematic representation of the solid waste management hierarchy.
- 6. Mention the four important properties of waste when used as a fuel?
- 7. What are the ideal soil quality indicators?
- 8. Explain the two major sources of oil pollution in nature.
- 9. Mention the factors that influence the biological effects of internalized radionuclides.
- 10. What are the consequences of low level radiation on humans?
- 11. Write down the salient features of Cytochrome P450.
- 12. List the various end points in chronic toxicity testing.

 $(2 \times 8 = 16)$

Section B Answer any 7 (5 marks each)

- 13. Write a note on major air pollutants.
- 14. Briefly describe the health effects of water pollution.
- 15. Write a note on waterborne and water related diseases.
- 16. Write a note on the various municipal collection services.
- 17. Elaborate on chemical properties of Solid wastes
- 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. Comment on the various adverse effects of radioactive pollution.
- 22. Distinguish between Graded bioassay and End Point bioassay.

Section C Answer any 2 (12 marks each)

- 23. Elaborate the various steps involved in the Sewage water treatment.
- 24. Discuss the various hazardous waste management practices.
- 25. Explain any case study to highlight pollution in wetland soil in Kerala.
- 26. Describe the factors that influence 'Biological Monitoring' studies.

(12 x 2 = 24)