

Reg. No

Name

18P421

M Sc DEGREE END SEMESTER EXAMINATION - MARCH 2018**SEMESTER 4 : ZOOLOGY****COURSE : 16P4ZOOT14EL; ENVIRONMENTAL POLLUTION AND TOXICOLOGY***(For Regular - 2016 admission)*

Time : Three Hours

Max. Marks: 75

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

1. Give the broad classification of pollution.
2. Write a note on secondary air pollutants.
3. Define 'electrodialysis'.
4. What is BOD?
5. What is the general composition of 'Waste' in India?
6. What is 'Kerb side' municipal collection service?
7. Define Available Water Capacity.
8. Tabulate the Ambient Noise Levels (Leq) applicable in India.
9. Comment on the effects of chronic exposure to sound on hearing in humans.
10. Discuss the two most important sources of radioactive pollution.
11. Mention the factors affecting metabolism of xenobiotics.
12. Comment on the unique features of skin irritation test. In what way it is different from skin sensitization?

(2 x 8 = 16)**Section B****Answer any 7 (5 marks each)**

13. Write the steps involved in sampling and analysis of SO₂.
14. Briefly explain the traditional water treatment methods.
15. Write a note on chemical precipitation in waste water treatment.
16. What are the responsibilities of the government regarding e-waste management?
17. What are the management practices for handling biomedical waste?
18. What are the methods used to assess soil quality?
19. Write a short account on soil enzymes.
20. Citing suitable examples describe the effect of sound pollution on communication in animals.
21. Discuss briefly the important sources of radioactive pollution.
22. Write a critical note on 'Sentinel Organisms'.

(5 x 7 = 35)**Section C****Answer any 2 (12 marks each)**

23. Write an essay on the advanced methods in waste water treatment.

25. Write an essay on the various soil quality indicators.
26. Discuss how biotransformation of xenobiotics take place in the body.

(12 x 2 = 24)