

Reg. No

Name

17P3614

MSc DEGREE END SEMESTER EXAMINATION- OCTOBER-NOVEMBER 2017
SEMESTER 3 : ENVIRONMENTAL SCIENCE
COURSE : 16P3EVST09 ; ENVIRONMENTAL POLLUTION AND TOXICOLOGY
(For Regular - 2016 admission)

Time : Three Hours

Max. Marks: 75

Section A

Answer any 10 (2 marks each)

1. Define LD₅₀.
2. Why are plastic bags a big environmental nuisance?
3. Comment on the properties of sound and noise.
4. Define NMS.
5. Define the term 'Background Radiation'?
6. What dose limit is fixed for the workers of nuclear installations?
7. Comment on water pollution.
8. List out various effects of air pollutants on animals.
9. Differentiate bioaccumulation and bio magnification.
10. Comment on advanced water treatment methods.
11. Define municipal solid waste.
12. Comment on Plastic Act 1999.

10 x 2 (20)

Section B

Answer any 5 (5 marks each)

13. What is region of homeostasis in dose-response relationship? Explain with relevant example.
14. Describe in detail the toxicity bioassay protocol for acute toxicity.
15. What are the major objectives of soil testing?
16. Describe the five categories of oil types and the after effects of their spillage on marine life.
17. Briefly explain effects of air pollutants.
18. Discuss various methods of sludge disposal.
19. Explain the process and stages of composting.

20. Discuss fixation of hazardous solid waste.

5 x 5 (25)

Section C

Answer any 2 (15 marks each)

21. Describe in detail the major bioassay protocols for toxicity testing of new chemicals. Mention the advantages and limitations of the procedure.
22. Describe in detail the sources of soil pollution. What control measures could be adapted to prevent and to alleviate soil pollution.
23. Write an essay on particulates and gaseous pollutants in the atmosphere.
24. Write an essay on Primary and secondary treatment of waste water.

2 x 15 (30)