

Reg. No .....

Name .....

**18P3614**

**MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2018**  
**SEMESTER 3 : ENVIRONMENTAL SCIENCE**  
**COURSE : 16P3EVST09 : ENVIRONMENTAL POLLUTION AND TOXICOLOGY**  
*(For Regular - 2017 Admission & Supplementary - 2016 Admission)*

Time : Three Hours

Max. Marks: 75

**Section A**  
**Answer any 10 (2 marks each)**

1. Comment on nitrogen mustard.
2. Give the present status of the environment of selected wetlands of Kerala.
3. Comment on the properties of sound and noise.
4. What are the effects of noise pollution on wildlife?
5. Comment on ionizing and non-ionizing radiation.
6. What is radiation absorbed dose (rad)?
7. Comment on water pollution.
8. Comment on air sampling techniques.
9. Define 'water quality'.
10. What are Coagulant Aids?
11. Comment on vermicomposting.
12. Comment on plasma pyrolysis.

**(2 x 10 = 20)**

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

13. Describe two case studies involving DDT and its after-effects.
14. What is selective toxicity? Describe the causes with specific examples.
15. Write a brief note on the soil physical indicators.
16. Describe the five categories of oil types and the after effects of their spillage on marine life.
17. What are the factors responsible for biological damage caused by radiations?
18. Briefly explain different types of pollution.
19. Briefly explain effects of air pollutants.
20. Briefly explain combined aerobic and anaerobic treatment process in waste water treatment.

**(5 x 5 = 25)**

**Section C**  
**Answer any 2 (15 marks each)**

21. Give a detailed account of the different variables influencing toxicity with relevant examples.
22. Write an essay on particulates and gaseous pollutants in the atmosphere.

23. Discuss elaborately Water quality standard for potability.
24. Discuss different aerobic methods used for municipal solid waste management.

**(15 x 2 = 30)**