

Reg. No

Name

20P3014

M. Sc DEGREE END SEMESTER EXAMINATION - OCT/NOV 2020: JAN 2021

SEMESTER 3 : ENVIRONMENTAL SCIENCE

COURSE : 16P3EVST09 : ENVIRONMENTAL POLLUTION AND TOXICOLOGY

(For Regular - 2019 Admission and Supplementary - 2016/2017/2018 Admissions)

Time : Three Hours

Max. Marks: 75

PART A

Answer any 10 (2 marks each)

1. Comment on PAN?
2. Give the present status of a few wetlands in Kerala with special reference to soil pollution.
3. Comment on thermal enrichment.
4. Comment on the role of ITOPF.
5. What is radiation absorbed dose (rad)?
6. Mention the dose limit fixed for the workers of nuclear installations?
7. Comment on Industrialization.
8. How does air pollution affect materials and structures?
9. What are coliform bacteria?
10. List out any four waterborne diseases.
11. Comment on vermicomposting.
12. What are biodigesters?

(2 x 10 = 20)

PART B

Answer any 5 (5 marks each)

13. What is occupational toxicology? Why is it required?
14. Comment on toxicity of lead, mercury and ozone.
15. Write a short notes on sources of soil pollution.
16. Explain the local, regional and global aspects of soil pollution.
17. Prepare a note on suspended particulate matter and outline its classification.
18. Discuss primary treatment.
19. Discuss how nutrients are removed from waste water.
20. Comment on E-waste management strategies.

(5 x 5 = 25)

PART C

Answer any 2 (15 marks each)

21. Describe the biochemical aspects of As, Cd, Pb, Hg and Cu. Elucidate with specific case studies.
22. Write an essay on particulates and gaseous pollutants in the atmosphere.
23. Write an essay on sewage treatment.
24. Write an essay on collection, transport and waste processing of MSW.

(15 x 2 = 30)