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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**

(For Candidates admitted from 2020-2021 onwards)



PG DEGREE EXAMINATIONS APRIL - 2021

M.Sc., - BIOTECHNOLOGY

ENVIRONMENTAL BIOTECHNOLOGY

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER

(10X1=10)

- Which of the following is called the secondary air pollutant?
 - PANs
 - Ozone
 - Carbon monoxide
 - Nitrogen dioxide
- Cosmic rays, such as gamma rays as the source of
 - Soil pollution
 - Thermal pollution
 - Noise pollution
 - Radiation pollution
- Which of the following is not a reason behind air pollution?
 - Industrialization
 - Deforestation
 - Vehicular exhaust
 - Afforestation
- Which of the following solid wastes describes the term 'Municipal Solid Waste'?
 - Toxic
 - Hazardous
 - Non-toxic
 - Non-hazardous
- The organic material of the solid waste will decompose.
 - By the flow of water
 - By the soil particles
 - By the action of microorganisms
 - By oxidation
- _____ is a waste disposal method where solid organic wastes are converted to the residue and gaseous products through combustion.
 - incarnation
 - incarceration
 - incineration
 - incubation
- Which of the following bacterium is called as the superbug that could clean up oil spills.
 - Pseudomonas denitrificans
 - Bacillus subtilis
 - Pseudomonas putida
 - Bacillus denitrificans
- Milbemycin is known to exhibit a broad spectrum of activity against
 - Aricultural pests
 - Aricultural insects
 - Aricultural herbs
 - All of these
- The use of microorganism to degrade environmental pollutant is called
 - Micro remediation
 - Nano remediation
 - Bioremediation
 - All of these
- The process of extracting metal from one bearing rock is called
 - Bio extraction
 - Microbial extraction
 - Biofiltration
 - Bioleaching

PART- B

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Give short note on overview of hydrosphere.

(OR)

b) Write short note on 1) green house effect. 2) acid rain.

12. a) Write an account on methods of measurement of pollution.

(OR)

b) Explain about the biomagnifications.

13. a) What are the characteristics of the waste water?

(OR)

b) Write a short note on mechanism of pollutant degradation in a trickling filter unit.

14. a) Brief discuss about solid waste disposal.

(OR)

b) Write a short note on organic xenobiotic compounds

15. a) Brief note on bioleaching and its role.

(OR)

b) Give a brief account on role of immobilized enzymes in treatment of toxic compounds.

PART-C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Describe the global environmental problems and issues.

17. Explain in detail account on the different types of pollution.

18. Give a detailed account aerobic waste water treatment.

19. Describe about the solid waste characteristics and its impact on environment.

20. How the bioremediation help in the treatment of xenobiotics in environment. Explain it.