

20P219

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021

(CUCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ESC2 C08 - ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY

(Environmental Science)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* of the following.

1. What is nutrient film technique?
2. Explain the significance of phytoremediation
3. Describe antibiotic sensitivity testing
4. Write notes on Thermophilic microbes
5. Explain Biochemical Oxygen Demand (BOD)
6. What are Green belts?
7. What is the role of biofertilizers in soil management?

(4 × 2 = 8 Weightage)

II Answer any *four* of the following.

8. What is the role of soil microbes in biogeochemical cycling?
9. Explain the importance of biopolymers and what are the major types of biopolymers
10. Discuss about MPN techniques in water quality analysis
11. Differentiate composting and vermicomposting
12. Explain the role of constructed wetlands on phytoremediation
13. What are the biotechnological measures adopted for air pollution control?
14. Give an account of bioremediation technology

(4 × 3 = 12 Weightage)

III Answer any *two* of the following.

15. Explain the role of microorganisms in the biodegradation of pollutants and discuss their role in environmental clean-up.
16. Briefly describe municipal solid waste management
17. What are the biotechnological measures to control industrial pollution?
18. What are scope and effects of genetic engineering in the field of environmental management

(2 × 5 = 10 Weightage)
