



QP CODE: 25022348



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025**

**Third Semester**

M.Sc BIOTECHNOLOGY

**CORE - BT020303 - ENVIRONMENTAL BIOTECHNOLOGY**

2019 ADMISSION ONWARDS

7FFF2539

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Define microbial infallibility.
2. What is bioaugmentation?
3. What is Nuclear Polyhedrosis Virus?
4. What are Metalloproteins?
5. What is meant by Total Organic Carbon in waste water?
6. Write a brief note on the design of UASB reactor.
7. What is air stripping?
8. Why ground water contamination is difficult to revert?
9. Name the feedstock for the production of Biofuel.
10. What is Polylactic acid?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. List out the reasons for the resistance of xenobiotics to microbial degradation.
12. Write down the steps involved in the cration of superbug for degrading xenobiotic compounds.
13. How is Bacillus thuringiensis used in biocontrol?
14. Write briefly about the microbes used in bioleaching.





15. Outline the confirmed test for bacteriological analysis of drinking water.
16. Discuss the significance of primary phase in waste water treatment.
17. Explain the design and working of a septic tank.
18. What are the sources of cellulose based plastics?

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Elaborate on bioremediation strategies.
20. Explain the process and importance of nitrogen fixation.
21. Elaborate Activated Sludge Process. Explain its different stages and types.
22. Illustrate the methods of composting. Add a note on its merits.

(2×5=10 weightage)

