



25047375

QP CODE: 25047375

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc BIOTECHNOLOGY

Core Course - BT020303 - ENVIRONMENTAL BIOTECHNOLOGY

2019 ADMISSION ONWARDS

A65ED339

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. List out the names of recalcitrant molecules.
2. List out the enzymes involved in biodegradation.
3. What are biopesticides?
4. What is MoFe protein?
5. Name the indicator organism in MPN method.
6. What is the reduction of BOD achieved by the primary treatment of waste water?
7. State the principle of reverse osmosis?
8. What is composting?
9. Name two PHB producing bacteria.
10. List some examples of Starch based Green Composites.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Write down the bioremediation of halogenated organic compounds.
12. What are in situ bioremediation methods.
13. What are the different ways of fixing nitrogen?





14. Write briefly about the microbes used in bioleaching.
15. Explain the chemical characteristics of waste water.
16. Assess the advantages of an activated Sludge Reactor.
17. How can you classify solid wastes?
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. Write an essay on different types of xenobiotic compounds with its biological impacts.
20. Explain the pest control mechanism of viral pesticides.
21. Describe Secondary Aerobic Waste Water Treatment.
22. Describe the use of anaerobic digestors. Write the mechanism of methanogenesis.

(2×5=10 weightage)

