

QP CODE: 26019073



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BIOCHEMISTRY

ELECTIVE - BC820403 - ECOLOGY AND ENVIRONMENTAL BIOCHEMISTRY

2019 Admission Onwards

A07672D7

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is the importance of Red data Books?
2. Briefly explain population growth curve.
3. Write a note on any two water quality parameters.
4. How organic chemicals affects the environment?
5. What is activated sludge process?
6. Explain the use of microbes in biotransformation.
7. Comment on biodegradation of agricultural chemicals.
8. Give an account on biofertilizers.
9. Briefly explain wasteland reclamation.
10. What are the steps involved in biogas production?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Briefly explain a) Food chain and food web b) Ecological pyramid
12. What is biodiversity? Write a note on different types of biodiversity.
13. Discuss about toxic heavy metals.
14. Phenols and petrochemicals causes environmental pollution. Explain.





15. Environmental pollution can be determined by using biosensors.Explain.
16. Applications of microbial transformations.
17. Explain biological control of plant pathogens.
18. Briefly explain Constitutional provisions for Environmental Protection.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. What is an Ecosystem ? Describe its structure and properties. What is Energy pyramid in an ecosystem?
20. Chemistry of soil: Formation; Constituents and properties of soils; Composition and type of soil.
21. Explain the process of Biodegradation. What are the factors affecting process of biodegradation?
22. What is Integrated pest management? What are the basic principles and advantages of Integrated pest management?

(2×5=10 weightage)

