TM253413S

Reg. No : 31/10/25

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, OCTOBER 2025

2024 ADMISSIONS REGULAR

SEMESTER III - CORE COURSE

BO3C12TM20 - Environmental Science

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight (8x1=8)

1. Write any two techniques used to study populations?
2. Give a brief outline on gene ecology.
3. Write a short note on secondary succession.
4. Define resilience of communities.
5. Define the following ecological terms: a) Rare Species b) Endangered Species.
6. Differentiate between primary productivity and secondary productivity.
7. What is the principle of remote sensing?
8. What is meant by geospatial variability?
9. Define noise pollution. Add note on the health effects caused by noise pollution on humans.
10. Write a brief account on the role of bioremediation on environmental sanitation.

Part B

II. Answer any Six questions. Each question carries 2 weight (6x2=12)

11. Explain the J-shaped and S-shaped population growth curves with suitable illustrations.
12. Explain ecological amplitude.
13. Describe the various physical and chemical characteristics used to determine the quality of water.
14. What is RET? Write a detailed note.
15. Write an account on the distribution of vegetation on earth.
16. Explain the significance of geotagging in environmental studies.
17. Explain in detail the theories of plant distribution.
18. How is high volume air samples used for ambient air quality sampling. Explain.

Part C

III. Answer any Two questions. Each question carries 5 weight (2x5=10)

19. Write an essay on various ecological processes involved in a plant community formation.
20. Explain the stages involved in a xerosere or xerarch.
21. Write an elaborate essay on the IUCN account of biodiversity.
22. Write an essay on the factors responsible for climate change.