

TM243760I

Reg. No :

Name :

26.11

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024
2023 ADMISSIONS REGULAR
SEMESTER III - CORE COURSE BOTANY
BO3C12TM20 - Environmental Science

Time : 3Hrs Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Give a brief outline on gene ecology.
2. Differentiate natality and mortality in population ecology.
3. What is meant by micro succession or serule?
4. Differentiate autogenic and allogenic changes in a succession.
5. What is meant by Keystone Species?
6. Write a short note on the different categories of species at risk.
7. Write a brief note on any one botanical zone of India.
8. How many phytogeographical regions are there in India?
9. Explain briefly the concept of biofilm.
10. Explain the concept of Bioaugmentation.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Describe any two methods used for the quantitative analysis of plant community.
12. Which are different ways of population dispersion?
13. What is ecotourism? Write the positive and negative impacts of ecotourism.
14. Elaborate the values of coastal ecosystems.
15. Explain the principles governing the distribution of plant on earth.
16. Write a detailed note on the following terms a.) Remote Sensing b) Geotagging c) Geospatial variability.
17. Explain the range of vegetation prevailing the different biogeographical zones of India.
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. Explain the various factors that influence population growth.
20. Give a detailed account on the various stages involved in the aquatic succession.
21. Explain the different tropical coastal ecosystems of India and the services provided by them.
22. What is meant by solid waste management? Write an elaborate essay on solid waste management.