

TM242453J

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024

2023 ADMISSIONS REGULAR

SEMESTER II - CORE COURSE ZOOLOGY

ZO2C05TM20 - Ecology: Principles and Practices

Time : 3 Hours

Maximum Weight : 30

Part A

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

(8x1=8)

1. Distinguish between grazing food chain and detritus food chain.
2. Compare and contrast between reducers and converters.
3. Write a note on sex ratio.
4. List out the major types of metapopulation.
5. Distinguish between biotrophic and necrotrophic parasites.
6. Briefly explain the significance of predation.
7. Summarize the relevance of Biofilms.
8. Explain any two processes used for the management of E - waste.
9. Comment on GIS and its applications.
10. Enumerate the different types of wetlands.



Part B

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

(6x2=12)

11. Comment on the effect of soil development on nutrient level.
12. Write an account on nutrient acquisition in herbivores and carnivores.
13. Give an account on age structure and age pyramids.
14. Describe population fluctuation. Indicate its types.
15. Write an account on competitive exclusion principle. Add notes on resource partitioning and utilization.
16. Give a detailed account on life cycle of parasites.
17. Give an account on sources, effects and methods of solid waste management.
18. Explain and deduce the major effects of deforestation.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Write a detailed account on population regulation.
20. Describe a detailed account on different animal prey defence mechanisms used to escape predation. Cite suitable examples.
21. Describe the major characteristics of water pollution with special mention to its sources, causes and consequences.
22. Explain in detail about the major sources of non renewable energy resources, its advantages and disadvantages.