QP CODE: 24018793

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Reg No : .....

Name : .....

MSc DEGREE (CSS) EXAMINATION , APRIL 2024

Second Semester

M Sc ZOOLOGY

CORE - ZL010201 - FIELD ECOLOGY

2019 Admission Onwards

77E93F29

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. How do herbivores affect ecosystems?
2. Briefly describe the concept of productivity in an ecosystem.
3. What is carrying capacity?
4. Comment on territoriality.
5. Differentiate between interspecific and intraspecific competion.
6. Parasites has low lethality but high intimacy. Expalin the given statement.
7. What is Bioremediation and its scope?
8. What is ecosystem modelling?
9. Write a note on hydro and geothermal energy resources.
10. What is GIS? What are it's applications?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Comment on the cybernetic nature of an ecosystem.
12. How do animals protect themselves from extreme weather?
13. Write a note on population fluctuations and cycle.
14. Explain the concept and structure of metapopulation.

15. Explain functional and numerical responses in predation.

16. Comment on various types of defence against parasites by host.

17. Write a note on disposal of radioactive waste.

18. Explain different water conservation measures.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain the effect of hot temperature on organisms.

20. Explain density dependent and density independent influences.

21. Describe various strategies of predator offence.

22. Explain the biotechnological approach of environmental pollution abatement with reference to solid waste management.

(2×5=10 weightage)