QP CODE: 22002347

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Reg No : .....

Name : .....

## MSc DEGREE (CSS) EXAMINATION , NOVEMBER 2022

### Second Semester

M Sc ZOOLOGY

### CORE - ZL010201 - FIELD ECOLOGY

2019 Admission Onwards

D1B9BAAD

Time: 3 Hours Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is the importance of soil pH in agriculture?
2. What is the importance of producers in an ecosystem?
3. Comment on stochastic model of extinction.
4. Comment on Allee's principle of aggregation.
5. What is brood parasitism? Give example.
6. Write a short note on mutualistic relationship of human with crops.
7. What are ecological indicators?
8. Enumerate any five causes of deforestation.
9. Comment on impacts of depletion of natural resources on life.
10. Explain EIA.

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight **2** each.*

11. Comment on the effects of global warming on species phenologies.
12. "The ecosystem are capable of self maintaining and self regulation". Do you agree?
13. Population growth may change in response to global warming.Explain.

14. Comment on reproduction strategies and list out the attributes of r and k selection.

15. Discuss the different types of competition found in nature.

16. Predation results in coevolution of Predator and prey. Explain with examples.

17. Which are the different types of bioreactor land fills.

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 effects of cold and hot temperatures on organisms.

20. Explain in detail about properties of population.

21. Comment on various types of defense against parasites by host with examples.

22. Explain air pollution with its consequences and control measures.

(2×5=10 weightage)