(Pages : 2) **L – 6301**

Reg. No. : .....

Name : .....

First Semester M.Sc. Degree Examination, August 2021

Environmental Sciences

ES 211 : ENVIRONMENTAL BIOLOGY AND ECOSYSTEM DYNAMICS

(2018 Admission Onwards)

Time : 3 Hours Max. Marks : 75

I. Briefly explain **any ten** of the following:

1. Age pyramids.
2. Allogenic succession
3. Biotic Potential
4. Ecological efficiency
5. Salt wedge.
6. Ecosphere
7. Population density
8. Edge effect
9. Ecotone.
10. Food web.
11. Mutualism
12. Ecological variables

(2× 10= 20 Marks)

P.T.O.

II. Answer any **five** of the following:

13. Explain the adaptations of desert animals.

14. Explain the ecological pyramids

15. Explain different interspecific interactions.

16. Write the characteristics of Intertidal ecosystem

17. Explain Laws Leibig's and Shelford's

18. Write an account of Productivity of an ecosystem.

19. Explain prey — predator relationship

(5 × 5 = 25 Marks)

III. Answer any **three** of the following

20. Comment on sedimentary cycles with special reference to Sulphur and Phosphorous.

21. Describe characteristic of different Aquatic Ecosystems

22. Explain the factors of population regulation

23. Write an essay on the principles and application of Bioinformatics

(10 × 3 = 30 Marks)

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