



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2022

PZO 3501 – ENVIRONMENTAL BIOLOGY AND MANAGEMENT

Date: 23-11-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART - A

Answer ALL questions

(10 x 2 = 20 Marks)

1. State Allen's rule and Bergmann's rule.
2. What is Permafrost?
3. What is the difference between fundamental and realized niche?
4. Comment on amensalism.
5. What is bioremediation?
6. Comment on edge effect.
7. Write four goals of sustainable development.
8. What are biopesticides?
9. What is the role of polar stratospheric clouds in ozone depletion?
10. Comment on Biovillages.

PART - B

Answer any FOUR questions

(4 x 10 = 40 Marks)

11. Briefly explain the process of ecological succession.
12. Describe the types of energy flow in ecosystem with suitable examples.
13. Write a note on temperature inversion and its significance.
14. Write a detailed account on Environmental Impact Assessment.
15. Briefly explain the classification and applications of bioindicators.
16. Write an account on Green peace movement and Chipko movement and its role in environmental management.

PART - C

Answer any TWO questions

(2 x 20 = 40 Marks)

17. Give a detailed account on sedimentary cycle and the impact of industrialization on these cycles.
18. Write an essay on the various biotechnological approaches for environmental management.
19. Write a detailed account on biodiversity in India and the conservation strategies.
20. Describe the factors contributing to global warming and the international treaties on climate change.

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