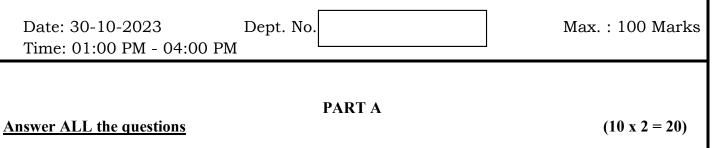
# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION – **ZOOLOGY** 

### THIRD SEMESTER - NOVEMBER 2023

# PZO 3501 – ENVIRONMENTAL BIOLOGY AND MANAGEMENT



- 1. Define biodiversity hotspot.
- 2. What is Permafrost?
- 3. What is the difference between fundamental and realized niche?
- 4. Comment on biotic potential.
- 5. What is bioremediation?
- 6. Comment on edge effect.
- 7. Write any four goals of sustainable development.
- 8. What is mutualism?
- 9. What is the role of polar stratospheric clouds in ozone depletion?
- 10. Comment on Biovillages.

## PART B

## Answer any FOUR questions

- 11. Briefly explain the process of ecological succession.
- 12. Describe the types of energy flow in ecosystem with suitable examples.
- 13. Explain food web with a diagram.
- 14. Write a detailed account on the types of population growth curves.
- 15. Briefly explain the classification and applications of bioindicators.
- 16. Write an essay on Green Peace movement and Chipko movement and its role in environmental management.

# PART C

### Answer any TWO questions

- 17. Write a brief account on carbon and nitrogen cycle and the impact of industrialization on these cvcles.
- 18. Give an account on the various interspecific relationships with examples.
- 19. Write a detailed account on biodiversity in India and the conservation strategies.
- 20. Write a note on the factors contributing to global warming and the international treaties on climate change.

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 $(2 \times 20 = 40)$ 

 $(4 \times 10 = 40)$