

19. Give an account on

(a) Global Seed Vault and

(b) Sacred groves

20. Illustrate the selection criteria for protection of species.

S.No. 2838

P 16 ESE 1

(For candidates admitted from 2016–2017 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Environmental Science – Elective

BIODIVERSITY AND CONSERVATION

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Genetic diversity
2. Urban biodiversity
3. Bioprospecting
4. Anthropocentrism
5. Habitat fragmentation
6. Red Data Book
7. Global Strategy for Plant Conservation (GSPC)

8. Cryopreservation
9. Criteria for biodiversity hot spots
10. Invasive species.

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Briefly mention the core areas of global biocultural diversity.

Or

- (b) Outline the significance of species diversity.

12. (a) What are the consumptive values of biodiversity? Explain with examples.

Or

- (b) How to monetizing the value of biodiversity? Explain.

13. (a) 'Habitat degradation is a major threat to biodiversity resources' — Justify.

Or

- (b) Discuss the relationship between the sixth mass extinction and global climate change.

14. (a) Why conservation biology is more significant? Explain.

Or

- (b) Discuss the role of Protected Area Network for biodiversity conservation.

15. (a) What are the conflicts between management and decision making in conservation?

Or

- (b) Outline the salient features of Eastern Himalayas.

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Describe the different types of landscape diversity and their ecological significance.
17. Discuss the relationship between the ecocentrism and anthropocentrism.
18. How invasive species influence our biodiversity resources? Explain with examples.