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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

B.Sc. LRP (Alternate Pattern)

A11 BIODIVERSITY – SCOPE AND RELEVANCE

(2019—2023 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A*All questions can be answered.**Each question carries 2 marks.**(Ceiling 25 marks)*

1. Name the therapeutic agents derived from plants through bio-prospecting.
2. What factors influence species diversity in a given ecosystem ?
3. Why are fungi essential for the functioning of ecosystems, and how do they interact with other organisms ?
4. Why are seed banks considered valuable for preserving plant diversity ?
5. How do invasive species contribute to the decline of native species and overall biodiversity ?
6. What is IUCN Red List ?
7. What role do micro-organisms play in bio-prospecting for novel enzymes ?
8. What is the common method used for biodiversity inventorying ?
9. How does the use of indicator species contribute to biodiversity monitoring ?
10. Define in situ conservation.
11. What is Biodiversity hotspot ?
12. What is immunosuppressive agent ? Give examples.
13. What are the examples of indirect economic benefits provided by biodiversity ?
14. How can individuals contribute to the conservation of biodiversity in their daily lives ?
15. What is the definition of bio-prospecting, and why is it important ?

Turn over

Section B

All questions can be answered.

Each question carries 5 marks.

(Ceiling 35 marks)

16. Explain the impact of pollution on genetic diversity.
17. Discuss the impact of climate change on species extinction.
18. How does the reliance on a few high-yielding crop varieties impact agro biodiversity ?
19. Briefly explain the importance of biosphere reserves ?
20. Explain the role of remote sensing in biodiversity monitoring.
21. Differentiate between national parks and wildlife sanctuaries.
22. What is the purpose of gene banks in conservation ?
23. Explain the role of botanical gardens.

Section C

Answer any two of the following questions.

Each question carries 10 marks.

24. How do human activities contribute to the current biodiversity crisis ? Explain with suitable examples.
25. How do conservation efforts for genetic diversity contribute to overall ecosystem health ? Explain.
26. Discuss the impact of climate change.
27. Explain the need for inventorying and monitoring of biodiversity ? What are the methods of inventorying and monitoring of biodiversity ? Mention their limitations.

(2 × 10 = 20 marks)