

Mains Practice Question

Q. Discuss how India can mainstream biodiversity conservation in all relevant sectors of development to achieve long term sustainability. **(250 words)**

17 Jul, 2024 GS Paper 3 Bio-diversity & Environment

Approach

- Introduce by highlighting the the need for balancing biodiversity conservation and development
- Delve into key sectors and mention how biodiversity conservation can be mainstreamed
- Conclude positively.

Introduction

The intricate balance between **economic progress and environmental preservation** lies at the heart of India's future. While development is crucial for societal well-being, neglecting the **natural world jeopardizes long-term sustainability.**

 Mainstreaming biodiversity conservation into development sectors is crucial for India to achieve a sustainable future.

Body

- Agriculture Sector
 - Promoting agrobiodiversity: Incentivizing cultivation of indigenous crop varieties
 Supporting traditional farming practices that enhance biodiversity
 - Example: The Protection of Plant Varieties and Farmers' Rights Act, 2001, which safeguards farmers' rights to save, use, and share seeds of diverse varieties
 - Sustainable agriculture practices: Encouraging organic farming and integrated pest management
 - Example: The Paramparagat Krishi Vikas Yojana (PKVY) promoting organic farming clusters across India.
- Forestry Sector
 - **Sustainable forest management**: Implementing ecosystem-based approaches. Promoting community-based forest management.
 - Example: The National Mission for a Green India, aiming to increase forest cover and improve ecosystem services
 - **Restoration of degraded forests:** Implementing large-scale afforestation programs. Promoting native species in reforestation efforts.
 - Example: India aims to restore 26 Million hectares of degraded land by 2030.
 - **Enhancing forest connectivity:** Creating wildlife corridors. Implementing landscape-level conservation approaches.
 - Example: The recent efforts to create elephant corridors across multiple states
- Fisheries Sector:

- **Sustainable fishing practices**: Implementing catch quotas and size limits. Promoting responsible aquaculture
 - Example: The Marine Fishing Regulation Acts of coastal states implementing mesh size regulations and seasonal fishing bans
- Marine protected areas: Expanding and effectively managing marine protected areas.
 - Example: The recent expansion of marine protected areas in the Lakshadweep archipelago.
- Infrastructure and Urban Development
 - **Green infrastructure:** Integrating biodiversity considerations into urban planning Promoting green spaces and urban forests.
 - Example: The development of biodiversity parks in Delhi and other major cities
 - **Wildlife-friendly linear infrastructure**: Implementing wildlife passages in roads and railways.
 - Promoting underground power transmission lines in sensitive areas.
 - Example: The wildlife underpasses and overpasses constructed on NH7 near Pench Tiger Reserve
- Energy Sector
 - Renewable energy with biodiversity safeguards: Implementing stringent
 Environmental Impact Assessments for renewable projects. Promoting wildlife-friendly wind
 and solar farm designs
 - **Example:** The Ministry of Environment, Forest and Climate Change (MoEFCC) guidelines for **wind power projects in forest areas.**
 - **Sustainable hydropower:** Implementing environmental flow regulations Ensuring fish passages in dam designs.
 - Example: The e-flow notifications for the Ganga river system issued by the National Mission for Clean Ganga
- Tourism Sector
 - **Ecotourism promotion**: Developing community-based ecotourism models. Implementing carrying capacity limits in sensitive areas.
 - **Example:** The **eco-sensitive zone notifications** around protected areas regulating tourism activities.

Conclusion

Mainstreaming biodiversity conservation to promote **SDG 14 and 15** across development sectors is essential for India to achieve long-term sustainability. As India strives to balance its development aspirations with its rich biological heritage, **spotlighting biodiversity conservation** offers a pathway to a sustainable and resilient future.

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