Biological Diversity

Introduction | Importance | Threats | Conservation

Extent

Value

Threats

Hotspots

UN Convention on Biological Diversity

India's efforts

Biological
Diversity Act,
2002

The totality of genes, species, and ecosystems of a region. It has three components.

- •Genetic diversity: The diversity of genes within a species. There is a genetic variability among the populations and the individuals of the same species
- Species diversity: The diversity among species
- •Ecosystem diversity: The diversity of the ecological complexes of which the species are part.



Extent

Value

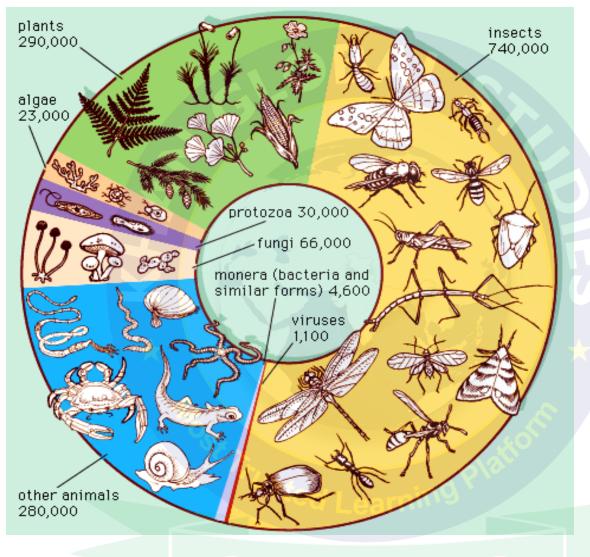
Threats

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** KHAN SIR **

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- 1. **Ecological Services** (such as Purification of air and water, Stabilization and moderation of the Earth's climate, Moderation of floods, droughts, temperature extremes and the forces of wind, Detoxification and decomposition of wastes, Generation and renewal of soil fertility, including nutrient cycling, Pollination of crops etc.)
- 2. Provision of food
- 3. Provision of industrial raw materials and building materials
- **4. Medical value** as source of drugs, genes, vaccines, testing systems etc.
- **5. Maintenance of genetic resources** as key inputs to crop varieties and livestock breeds, medicines, and other products
- 6. Cultural and aesthetic benefits



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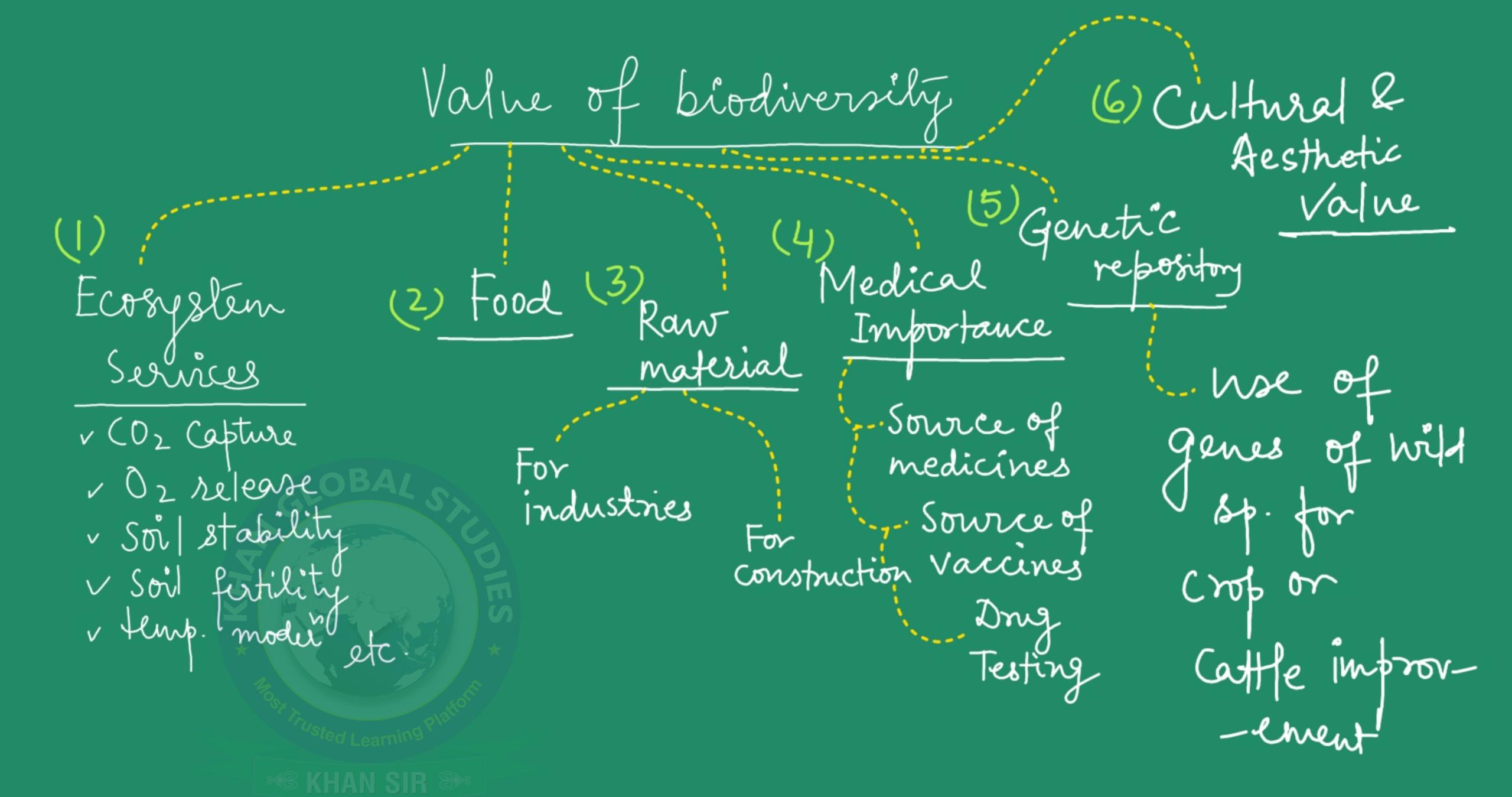
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Factors causing threat to biodiversity

- 1. Destruction of natural habitats of species for making land available for human settlements, urban centres, industries and mines, agriculture etc.
- 2. Ecosystem fragmentation and degradation due to various types of pollution
- 3. Overharvesting of biological resources and targeted elimination in some cases
- 4. Introduction of exotic and invasive species in various ecosystems
- 5. Disturbances in ecosystem dynamics due to climate change





2) Disturbance or follution of he habitat) Destruction 3 Overharvesting of/Fragment of Habitat of Biodiversity Exotic & Invasive 5) Climate Change effects

*** KHAN SIR **