

# **UPSC Civil Services Examination**

## UPSC Notes [GS-I]

## **Topic: Loss of Biodiversity [Geography Notes for UPSC]**

#### Loss of biodiversity

- About three-fourth of the human population resides in the Tropical regions which occupy only about one-fourth of the total area of the world.
- The tropical rain forests contain 50 percent of the species on the earth.
- The excessive population has resulted in the rampant exploitation of resources and deforestation.
- The destruction of the Tropical regions has resulted in the loss of natural habitats which is catastrophic for the whole biosphere.
- Natural calamities like forest fires, droughts, floods, volcanic eruptions, earthquakes, etc. cause damage to both flora and fauna of the earth.
- Pesticides and other pollutants like toxic heavy metals and hydrocarbons destroy the feeble and sensitive species.
- Loss of biodiversity in an area may cause
  - Decline in plant production
  - Lowered resistance to environmental perturbations
  - Increased variability in definite ecosystem developments such as water use, plant productivity, and disease cycles and pests.

### IUCN

- The IUCN issues data about endangered species universally as the Red List of threatened species.
- The organization has categorized the threatened species of plants and animals into three categories for the purpose of their conservation.
  - Endangered Species
  - Vulnerable Species
  - Rare Species

#### **Endangered Species**

• It comprises those species which are in danger of extinction.



### Vulnerable Species

- This comprises the species which are probable to be in danger of extinction in near the future if the factors threatening to their extinction continue.
- Survival of these species is not guaranteed as their population has decreased greatly.

### **Rare Species**

• The population of these species is very small in the world and they are restricted to limited areas or thinly scattered over a wider area.

https://byjus.com