# Biodiversity

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### What is Biodiversity?

- The term Biodiversity was first coined by Walter G.
  Rosen in 1986.
- The word Biodiversity originates from the Greek word BIOS = LIFE and Latin word DIVERSITAS = VARIETY or DIFFERENCE.
- The whole word BIO DIVERSITY generally therefore means: VARIETY OF LIFE.
- Biodiversity is the degree of variation of life. It is a measure of the variety of organisms present in different ecosystems.

## Types Of Biodiversity

Species Biodiversity

Genetic Biodiversity

Ecosystem Biodiversity

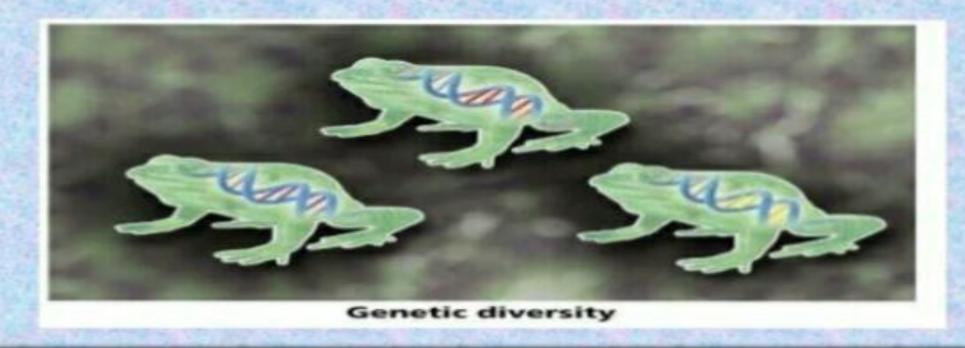
### Species Biodiversity

 Species Diversity is the effective number of different species that are represented in a collection of individuals



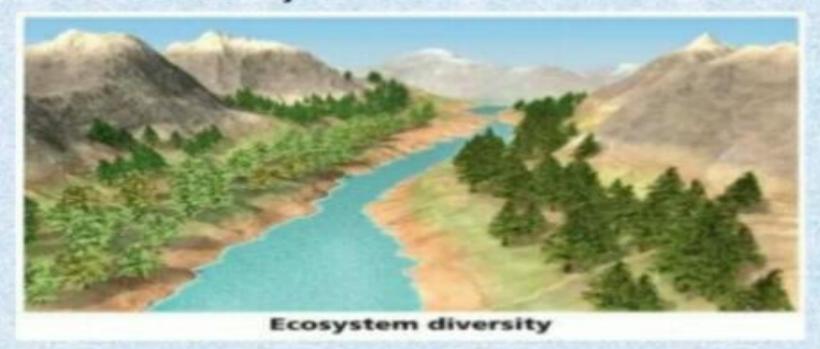
### Genetic Biodiversity

 Genetic diversity, the level of biodiversity refers to the total number of genetic characteristics in the genetic makeup of a species.



### **Ecosystem Biodiversity**

 Ecosystem diversity refers to the diversity of a place at the level of ecosystems. The term differs from biodiversity, which refers to variation in species rather than ecosystems.



#### BENEFITS OF BIODIVERSITY

#### Consumptive value:

- Food/Drink
- Fuel
- > Medicine
- Batter crop varieties
- Industrial Material

#### **Non-Consumptive Value:**

- Recreation
- Education and Research
- > Traditional value



#### THREATS TO BIODIVERSITY

#### Natural causes;

- Narrow geographical area
- Low population
- Low breeding rate
- Natural disasters

#### Anthropogenic causes:

- Pollution
- Hunting
- Global warming and climate change
- Agriculture





#### CONSERVATION OF BIODIVERSITY

- Biodiversity inventories
- Conserving Biodiversity in protected Habitats-
- In situ conservation
- Ex situ conservation
- Seed Bank, Gene Bank, Pollen Bank, DNA Bank



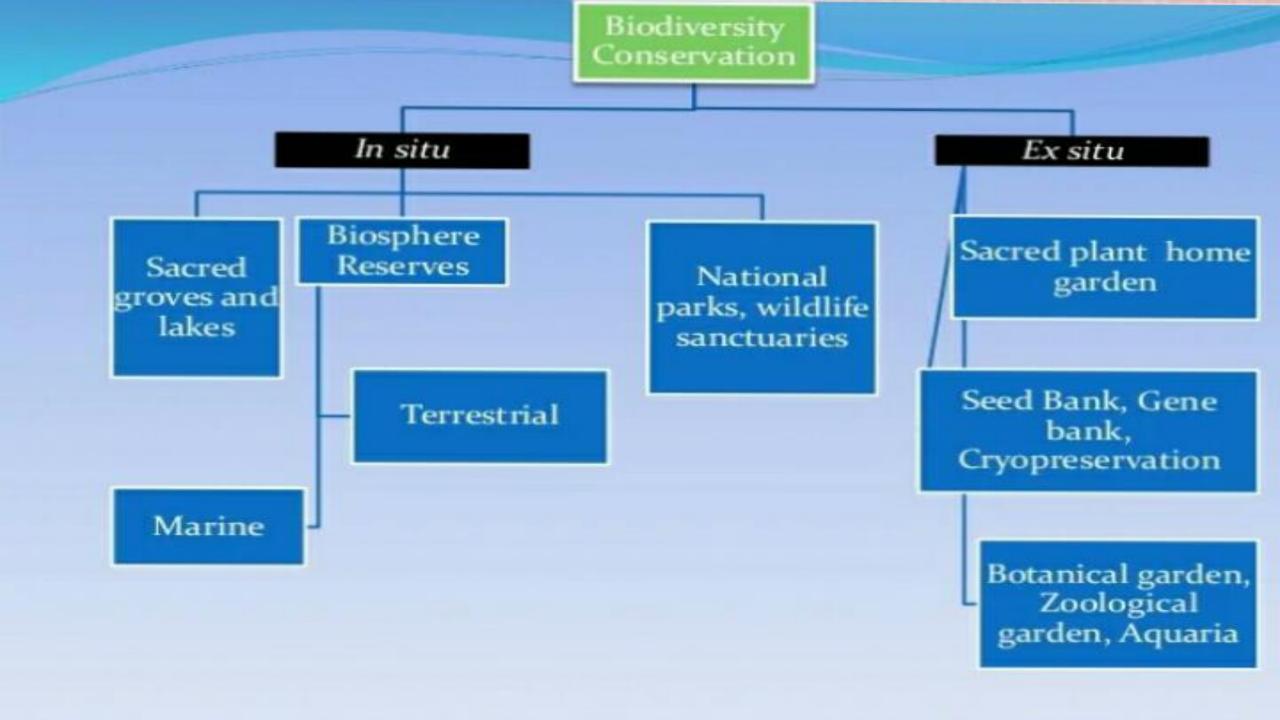
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Gene Bank



Bandhavgarh National Park



#### BIODIVERSITY IN INDIA

Categories	No. of Indian Species	% of Indian species Evaluated	Species Threatened In India
Mammals	386	59	41%
Birds	1219	-	7%
Reptiles	495	73	46%
Amphibians	207	79	57%
Freshwater Fish	700	46	70%

### Conclusion

Biodiversity is our life. If the Biodiversity got lost at this rate then in near future, the survival of human being will be threatened. So, it is our moral duty to conserve Biodiversity as well our Environment. Longterm maintenance of species and their management requires co-operative efforts across entire landscapes. Biodiversity should be dealt with at scale of habitats or ecosystems rather than at species level.

# Thank you