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Class : 12th Biology
Chapter- 15 : Biodiversity and Conservation

Conservation of Biodiversity

Reasons

- **Narrow Utilitarian**
  - More than 25% of the drugs are derived from plants.
- **Broadly Utilitarian**
  - Provides oxygen
  - Pollination
  - Aesthetic pleasures
- **Ethical Utilitarian**
  - Moral duty to take care for biodiversity

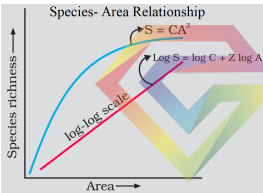
Methods

- **In-situ Conservation**
  - National Park
  - Sanctuary
  - Biosphere Reserves
  - Sacred Forests
  - Hotspots
- **Ex-situ Conservation**
  - Zoological Parks
  - Botanical gardens
  - Gene banks
  - Genetic resource centres

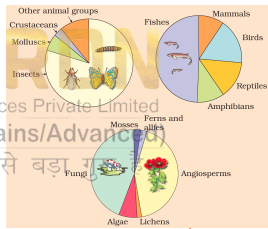
Biodiversity and Conservation

Biodiversity

- **Species- Area Relationship**



  - $\log S = \log C + Z \log A$
- **Global Species Diversity**



- **Levels of biodiversity**
  - **Genetic diversity**
    - Diversity shown n by a single species at genetic level.
  - **Species diversity**
    - Diversity at the species level
  - **Ecological diversity**
    - Diversity at the ecosystem level
- **Patterns of biodiversity**
  - **Latitudinal gradients**
    - Species diversity decreases from the equator towards the poles.
    - Tropics (latitudinal range of 23.5° S to 23.5° N) have more species than temperate o or polar areas.
- **Causes of loss of biodiversity**
  - Habitat loss and fragmentation
  - Over-exploitation
  - Alien-species invasions
  - Co-extinctions

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