

## 5.1 Deforestation and Its Causes

- **Deforestation:** Clearing of forests for other uses.
- **Main Causes:**
  - Procuring land for cultivation
  - Building houses and factories
  - Making furniture or using wood as fuel
  - Natural causes like forest fires, severe droughts

### Activity 5.1 – List the Causes of Deforestation

**Task:**

Make a table separating Natural and Man-made causes of deforestation.

## 5.2 Consequences of Deforestation

- Increases temperature and pollution.
- Increases carbon dioxide → Global warming.
- Disturbs water cycle → Less rainfall → Droughts.
- Soil erosion → Loss of fertile topsoil → Desertification.
- Decreases groundwater level.
- Affects biodiversity (plants and animals).

 **Question to think:**

- How does deforestation reduce rainfall but increase floods?

### Activity 5.2 – Effect on Animal Life

**Task:**

List how deforestation affects animals. (Habitat loss, food shortage, etc.)

## 5.3 Conservation of Forest and Wildlife

- **Protected Areas:**
  - **Wildlife Sanctuaries:** Animals are protected in their natural habitats.
  - **National Parks:** Large areas protected for wild flora, fauna, landscape, and historical objects.
  - **Biosphere Reserves:** Large areas conserving biodiversity, including wildlife and plants.

 **Protected Areas prohibit:**

- Grazing
- Hunting
- Cutting trees
- Other human activities

## 🌟 Activity 5.3 — Protected Areas Survey

### Task:

Find out and record the number of national parks, sanctuaries, and biosphere reserves in your district, state, and country.

Locate them on a map.

## 🛡️ 5.4 Biosphere Reserve

- **Biosphere Reserve:** Large protected area for conservation of biodiversity.
- **Example: Pachmarhi Biosphere Reserve — Includes:**
  - Satpura National Park
  - Bori Wildlife Sanctuary
  - Pachmarhi Wildlife Sanctuary

✅ Biosphere reserves conserve both flora and fauna.

## 🌟 Activity 5.4 — Disturbances in Biodiversity

### Task:

List human activities disturbing biodiversity.

Suggest how these can be controlled.

## 🌿 5.5 Flora and Fauna

- **Flora:** Plants of a particular area (e.g., Sal, Teak, Jamun in Pachmarhi).
- **Fauna:** Animals of a particular area (e.g., Chinkara, Cheetal, Leopard, Wild Dog).

## 🌟 Activity 5.5 — Identify Local Flora and Fauna

### Task:

Find out and list the flora and fauna of your own locality.

## 🐿️ 5.6 Endemic Species

- **Endemic Species:** Species found only in a particular area.
- **Examples:**
  - Giant squirrel
  - Wild mango
  - Bison

✅ Loss of habitat can endanger endemic species.

## 🌟 Activity 5.6 — Endemic Species Near You

### Task:

Identify endemic plants and animals in your region.

## 5.7 Wildlife Sanctuary

- Places where wild animals are protected in their natural habitat.
- Activities like grazing, collecting firewood allowed in limited way for local people.
- Poaching (illegal killing of animals) is banned.

## 5.8 National Parks

- Large areas preserving complete ecosystems.
- Example: Satpura National Park (First Reserve Forest of India).
- Protects flora, fauna, landscape, and historic objects (e.g., rock shelters).

✓ No human activities allowed like hunting, poaching, tree cutting.

✓ Satpura Tiger Reserve protects endangered tigers.

## 5.9 Red Data Book

- Red Data Book records all endangered animals and plants.
- Maintained at international level and national level (India also has one).

## 5.10 Migration

- Migration: Seasonal movement of birds from one place to another.
- Birds migrate to escape harsh climates (like cold winters) and for breeding.
- Example: Siberian cranes migrate to India.

## 5.11 Recycling of Paper

- Making 1 tonne of paper requires 17 full-grown trees.
- Saving, reusing, and recycling paper saves trees, energy, and water.
- Paper can be recycled 5–7 times.

✓ Save at least one sheet daily to help the environment!

## 5.12 Reforestation

- Reforestation: Replanting trees in deforested areas.
- Can happen:
  - Naturally (if area is left undisturbed)
  - Artificially (by planting trees)
- Forest Conservation Act helps preserve natural forests.

✓ Plant more trees to restore the green cover!