

CBSE: Grade 10 2023-24 Board: CBSE

Class - X

### FOREST & WILDLIFE RESOURCES

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#### Biodiversity or Biological Diversity -

**Biodiversity or Biological Diversity** → immensely rich in wildlife and cultivated species → diverse in form and function → but closely integrated in a system through multiple network of interdependencies.

## Flora and Fauna in India:

- one of the world's richest countries in terms of its vast array of biological diversity
- Nearly 8 per cent of the total number of species in the world (estimated to be 1.6 million).
- At least 10 per cent of India's recorded wild flora and 20 per cent of its mammals are on the threatened list.
- Many are categorised as 'critical', that is on the verge of extinction like the cheetah, pink-headed duck etc.

### Causes of depletion of the flora and fauna -

- Human beings transformed nature into a resource obtaining directly and indirectly from the forests and wildlife
  such as wood, barks, leaves, rubber, medicines, dyes, food, fuel, fodder, manure, etc. which depleted our forests
  and wildlife.
- The various factors that cause depletion of the flora and fauna are:
  - → Large-scale developmental projects
  - → Shifting cultivation
  - $\rightarrow$  Mining
  - → Over-grazing
  - $\rightarrow$  Forest fires
  - → historical reason (colonial rule)

#### Conservation of Forest and Wildlife in India -

- Conservation → Preserves the ecological diversity and our life support systems water, air and soil.
- Due to conservationist's demand-→ The Indian Wildlife (Protection) Act -1972 was passed → The aim is to
  protect the remaining population of certain endangered species by banning hunting, giving legal protection to
  their habitats, and restricting trade in wildlife.
- The central and many state governments established national parks and wildlife sanctuaries.
- The central government also announced several projects for protecting specific animals, which were gravely
  threatened, including the tiger, the one-horned rhinoceros and the Kashmir stag or Hangul, three types of
  crocodiles fresh water crocodile, saltwater crocodile and the Gharial, the Asiatic lion, and others.
- 1986, several hundred butterflies, moths, beetles, and one dragonfly have been added to the list of protected species.
- In 1991 → for the first time plants were also added to the list, starting with six species.



### **Project Tiger-1973**

- Tiger is one of the key wildlife species in the faunal web.
- 1973-→ The tiger population dwindled to 1,827 from an estimated 55,000 at the turn of the century.
- The major threats to tiger population→ poaching, shrinking habitat, depletion of prey base species, growing human population, etc.
- The trade of tiger skins and the use of their bones in traditional medicines, especially in the Asian countries left the tiger population on the verge of extinction.
- Since India and Nepal provide habitat to about two-thirds of the surviving tiger population in the world, these two nations became prime targets for poaching and illegal trading.

# Some of the tiger reserves of India →

- ✓ Corbett National Park in Uttarakhand
- ✓ Sunderbans National Park in West Bengal
- ✓ Bandhavgarh National Park in Madhya Pradesh
- ✓ Sariska Wildlife Sanctuary in Rajasthan
- ✓ Manas Tiger Reserve in Assam
- ✓ Periyar Tiger Reserve in Kerala

## Types and Distribution of Forest and Wildlife Resources -

• In India, much of its forest and wildlife resources are either owned or managed by the government through the Forest Department or other government departments.

### The forests are classified under the following categories:

Reserved Forests	Protected Forests	Unclassed Forests
<ul> <li>→ covers half of the total forest land.</li> <li>→ most valuable as far as the conservation of forest and wildlife resources are concerned.</li> </ul>	<ul> <li>→ Almost one-third of the total forest area is protected forest, as declared by the Forest apartment.</li> <li>→ This forest land are protected from any further depletion</li> </ul>	→ other forests and wastelands belonging to both government and private individuals and communities

- Reserved and protected forests → also referred to as permanent forest estates -→ maintained for the purpose of
  producing timber and other forest produce, and for protective reasons.
- Madhya Pradesh has the largest area under permanent forests, constituting 75 per cent of its total forest area.



### **Community and Conservation -**

- The forests are also home to some of the traditional communities.
- Local communities are struggling to conserve these habitats along with government officials to secure their longterm livelihood.
- In Sariska Tiger Reserve, Rajasthan, villagers have fought against mining by citing the Wildlife Protection Act.
- The famous Chipko movement in the Himalayas has successfully resisted deforestation in several areas
- Farmers and citizen's groups→ The Beej Bachao Andolan in Tehri and Navdanya have shown that adequate levels of diversified crop production without the use of synthetic chemicals are possible and economically viable.
- Joint forest management (JFM) programme introduced in 1988 in the state of Odisha shown good example for involving local communities in the management and restoration of degraded forests.

#### Sacred groves - a wealth of diverse and rare species -

- Nature worship is an age old tribal belief → based on the premise that all creations of nature have to be
  protected→ such beliefs have preserved several virgin forests in pristine form called→ <u>Sacred Groves</u> (the forests
  of Gods and Goddesses).
- These patches of forest or parts of large forests have been left untouched by the local people and any interference with them is banned.
- Certain societies revere a particular tree from time immemorial.
  - o The Mundas and the Santhal of Chota Nagpur region→ worship mahua (Bassia latifolia) and kadamba (Anthocaphalus cadamba) trees
  - The tribals of Odisha and Bihar→ worship the tamarind (Tamarindus indica) and mango (Mangifera indica) trees during weddings.
  - Peepal and banyan trees are also considered sacred.

