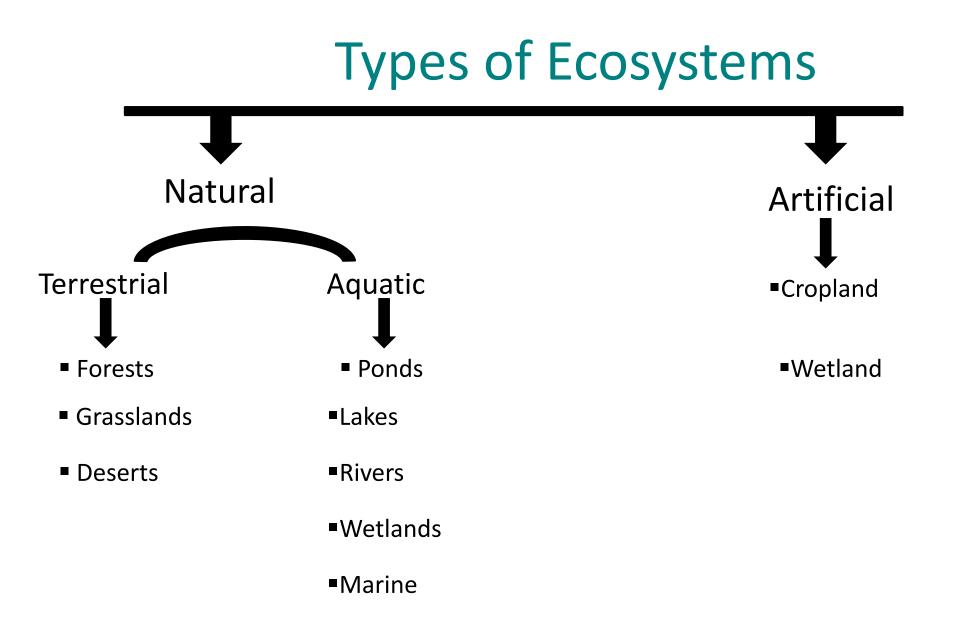
Forest Ecosystem

What do you mean by an Ecosystem?

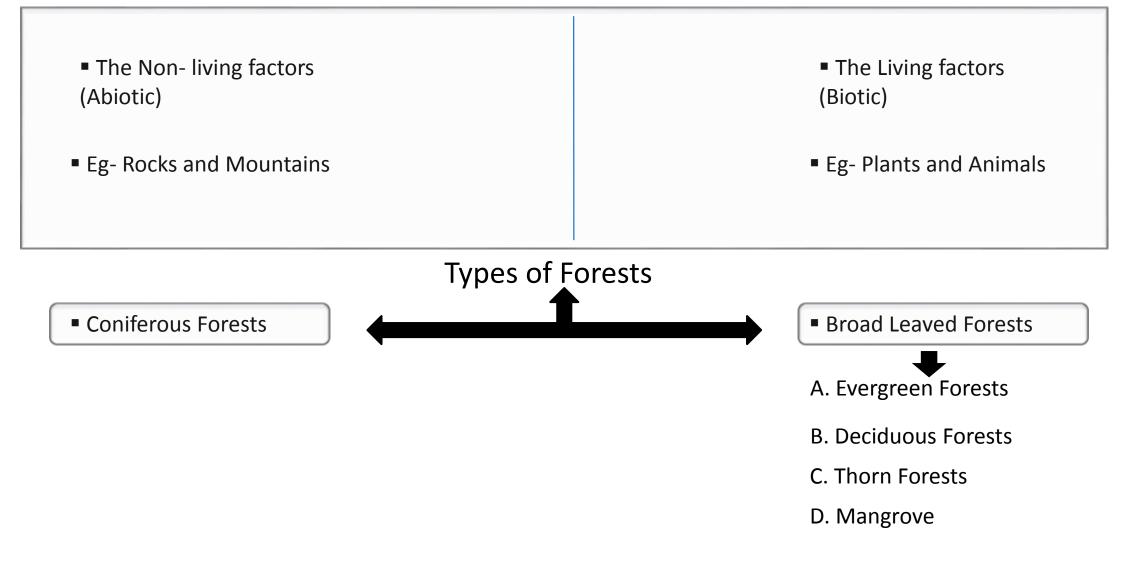
Eco means environment and System means interacting, interdependent complex.

Ecosystem – Main Characters

- An 'Ecosystem' is a region with a specific landscape form such as forests, grasslands, deserts, wetlands or coastal areas.
- The nature of an ecosystem is based on geographical features such as – hills, mountains, plains, rivers, lakes and coastal areas.
- It is controlled by climatic condition such as the amount of sunlight, the temperature and the rainfall in the region.



Forest Ecosystem



Coniferous Forests

- Grow in the Himalayan mountain region
- Temperature is low.
- Have tall trees with needle-like leaves and downward sloping branches so that the snow can slip off the branches.
- Have cones instead of seeds and are called gymnosperms



Broad Leaved Forests

Broad leaved forests
have large leaves of
various shapes and
have several types.



Evergreen Forests

- grow in the high rainfall areas of the Western Ghats, North Eastern and the Andaman and Nicobar islands. monsoon lasts for several months.
- Shed a few of their leaves throughout the year.
- No leafless phase.
- Only shade loving trees can grow in the ground layers as canopy overlap.
- Forest is rich in orchids and ferns abounds in animal life and is most rich in insect life



Deciduous Forests

- are found in regions with a balanced amount of seasonal rainfall.
- Iasts for only few months.

floor.

- most of the forests in which Teak grow are of this type.
- trees shed their leaves during the winter and hot summer months and regain their fresh leaves just before the monsoon.
- Light can penetrate easily onto the forests



Thorn Forests

- are found in the semi- arid regions.
- Trees are scattered and are surrounded by open grassy areas.
- can conserve water.
- Have long and fibrous roots to reach water at great depths.
- reduce loss of water some species have small leaves and some have thick waxy leaves.
- have thorns protect plants from herbivores.



Mangrove Forests

- grow along the coast especially in the river deltas.
- are able to grow in a mix and saline and fresh water, in muddy areas.
- have breathing roots.
- prevents soil erosion.



Uses of the Forest Ecosystem

- Fruits
- Flowers
- Food
- Medicines
- Bamboo and cane for baskets
- Fodder
- Wood
- Gum
- Raw material for a variety of things – Industrial products and chemicals.





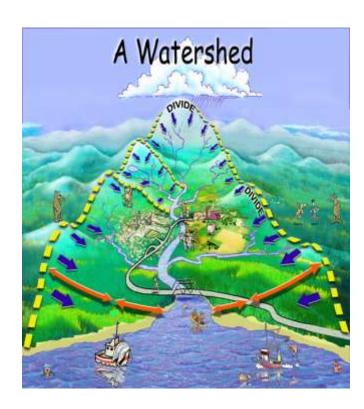






Services provided by the forest

- Control flow of water
- Watershed protection
- Help increase ground
- Water level
- Prevent soil erosion
- Control temperature
- Absorb co2
- Gene pool







Threats to the forest ecosystem

- Deforestation
- Poaching
- Overexploitation of resources
- Development activities (mining, dams)
- Changing land use patterns
- Fragmentation
- Habitat degradation









Conservation of forest ecosystems

- Use resources carefully
- Alternate source of energy for fuel wood
- Afforestation
- NP and Wildlife Sanctuaries
- Control population

Be a part to keep the balance of the Forest Ecosystem

