

CLASS VIII CH 2 LAND, SOIL, WATER, NATURAL VEGETATION AND WILDLIFE RESOURCES NCERT

introduction

- Mamba owns a rocky land with small hut(father barely grow beans and maize)she walks a long way to fetch water.
- Peter lives in sheep rearing region of newzeland,family works in wool factory, his sheep's is grazed in plains also vegetables through organic farming

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- They both live in different parts of the world where resources, vegetation, animals are different.



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Land

- 30% the total area, some parts are not habitat (most important natural resources)
- Varieties-rugged, steep slopes of the mountain, desert areas, thick forest areas are less populated.
- Plains are densely populated



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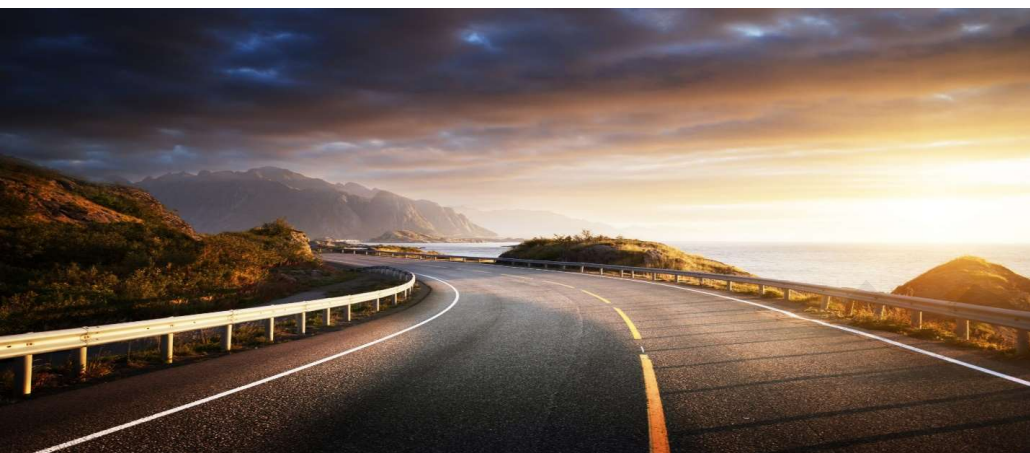
Land use

- Purpose for use_ agriculture , minning,forestry,roads,industries.
- Use of land is determined by physical factors- soilds,climate,topography and minerals.
- Community land are owned by the community(for fruits,nuts,fodder- also known as common property resources.



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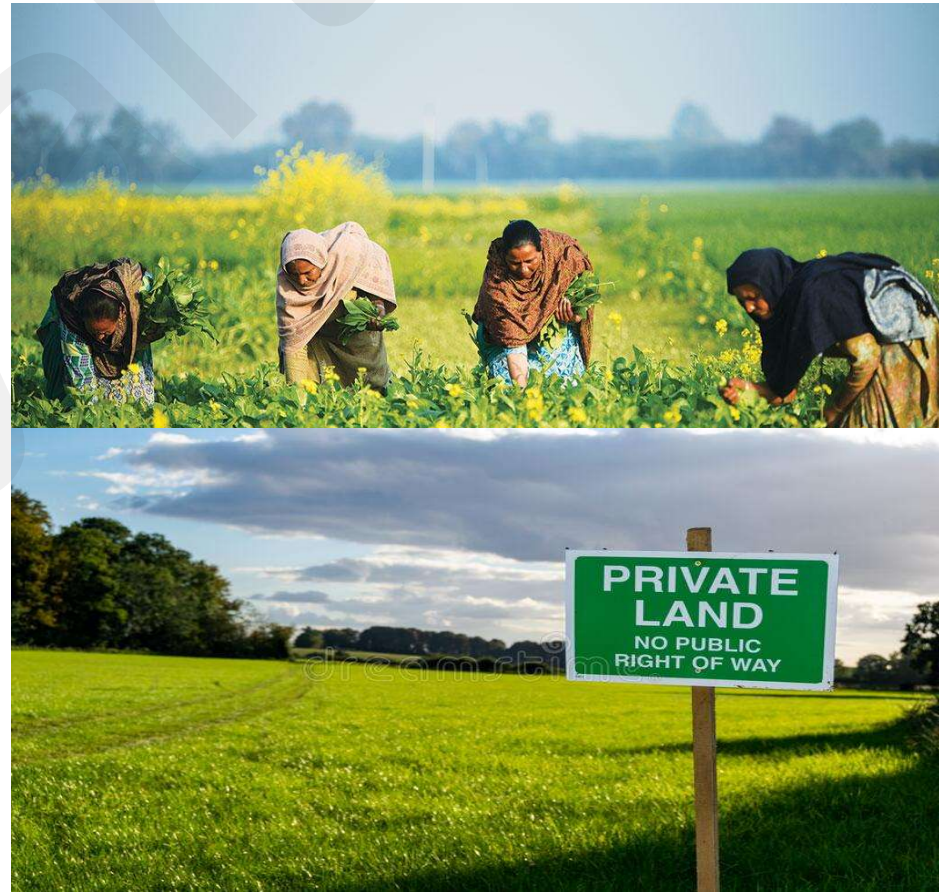


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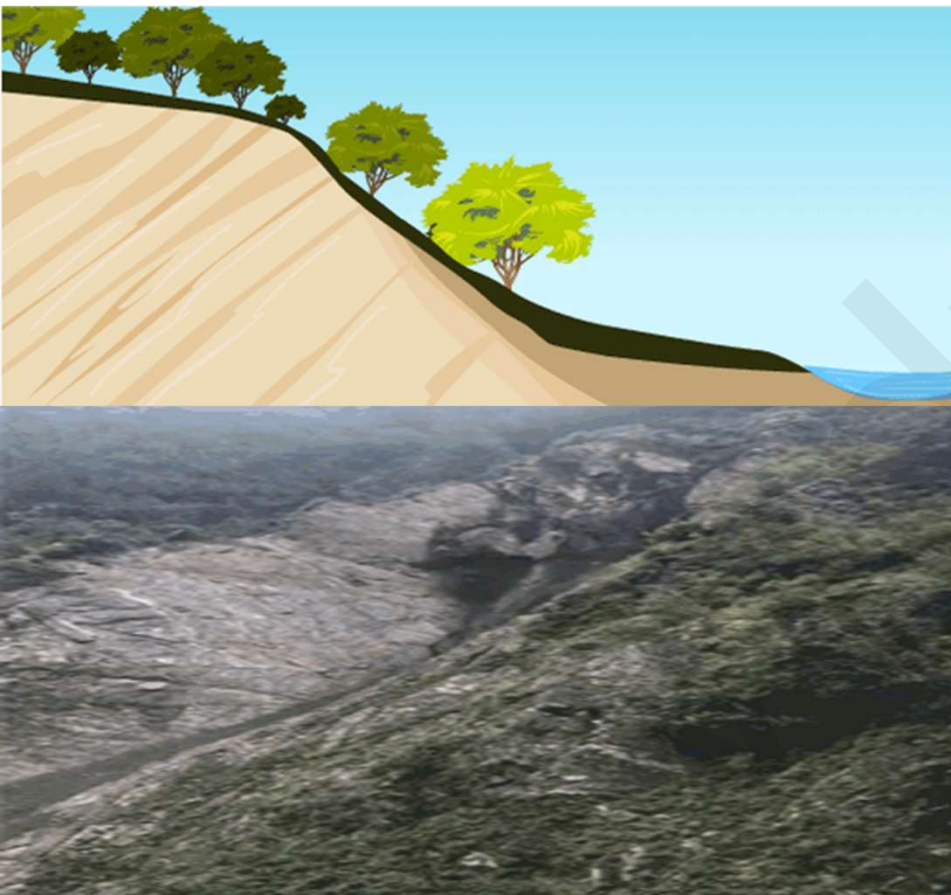
- Private land owned by individuals.
- Land is limited and some people are encroaching on others land, making houses complexes etc.
- Changes in land also occurs-land degradation,landslides,soil erosion etc. are major threats to environment(because of expansion of agreements and construction)



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Conservation of land resources

- Over population and their growing demand led to large scale destruction of forest and land.
- Degradation, use of pesticides and fertilizers should be checked.

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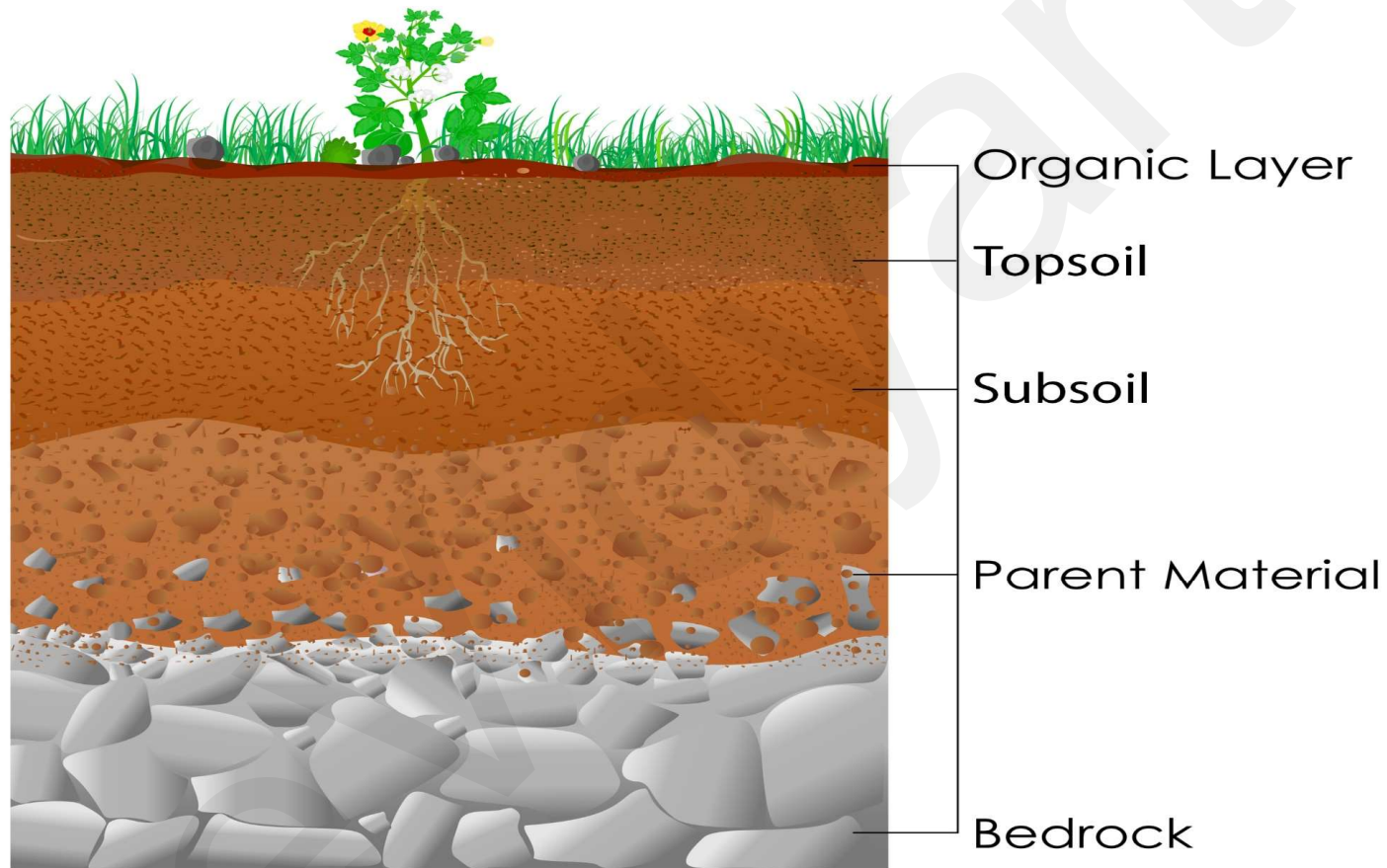
soil

- Made of grainy substances with withered rocks is called soil.
- Made up of organic matter, minerals that makes soil fertile.



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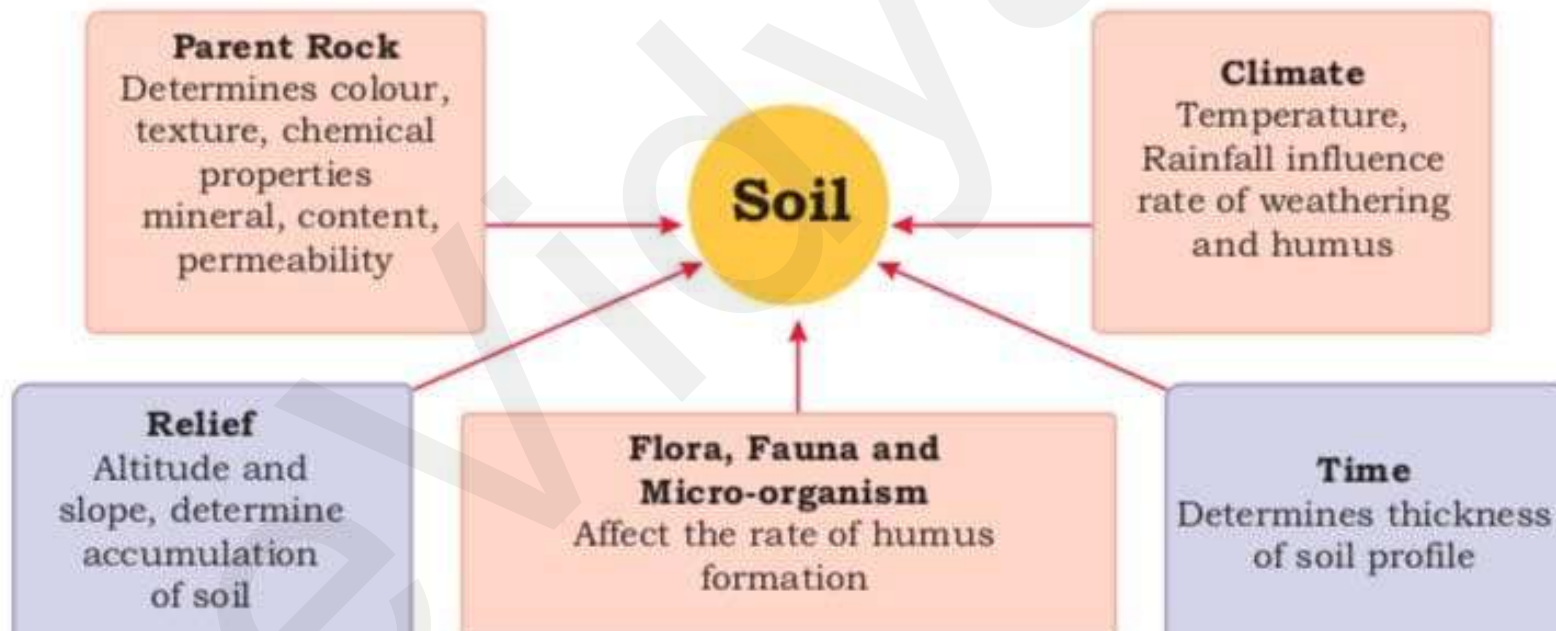


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Factors of soil formation

- Takes time in making.
- Climate factors are there.



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Degradation of soil

- Both human and natural factors are responsible.
- **Humans-** overgrazing, overuse of chemicals, degradation.
- **Natural-** rain wash, landslides, flood.
- **Conservation**
- ✓ **Mulching** – the plant is covered with dried grass to retain moisture.

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- **Contour barrier-** stones, grass makes a barrier.
- **Rock dam-**rocks slow down water flow.
- **Intercropping-**crops are grown at different time in alternative place.
- **Shelter belts-**row of trees are grown to protect the soil from the wind.



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- **Contour ploughing** –little trenches are made so that water can store and it helps in moisture.
- **Terrace farming**-in mountain step cutting is done where crops are grown(if flood occurs water washes the nutrients to next step.

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Water

- $\frac{3}{4}$ of the earth's surface is filled with water. It is saline in nature and only 2.7% is fresh water. Only 1% is fit for humans.
- 70% occurs as ice sheets and glaciers due to their location they are inaccessible.
- water always recycles in a constant motion (evaporation, runoff, precip.)

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- It is used not only for drinking and washing but for agriculture, industries, electricity.
- These major factors led to shortage of water.

Problems of water availability

- Countries like west, south, north Asia, America, Australia are facing shortage of fresh water.
- Caused by over exploitation, contamination of water.

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Conservation of water resources

- Pollution, discharge of sewage, chemicals from (agri-indus) they pollute water with nitrates, metals and pesticides.
- Most of these are non-bio degradable and reach human bodies through water.
- Forest and vegetation replenish ground water.
- Water harvesting, trickle irrigation and sprinklers are effective

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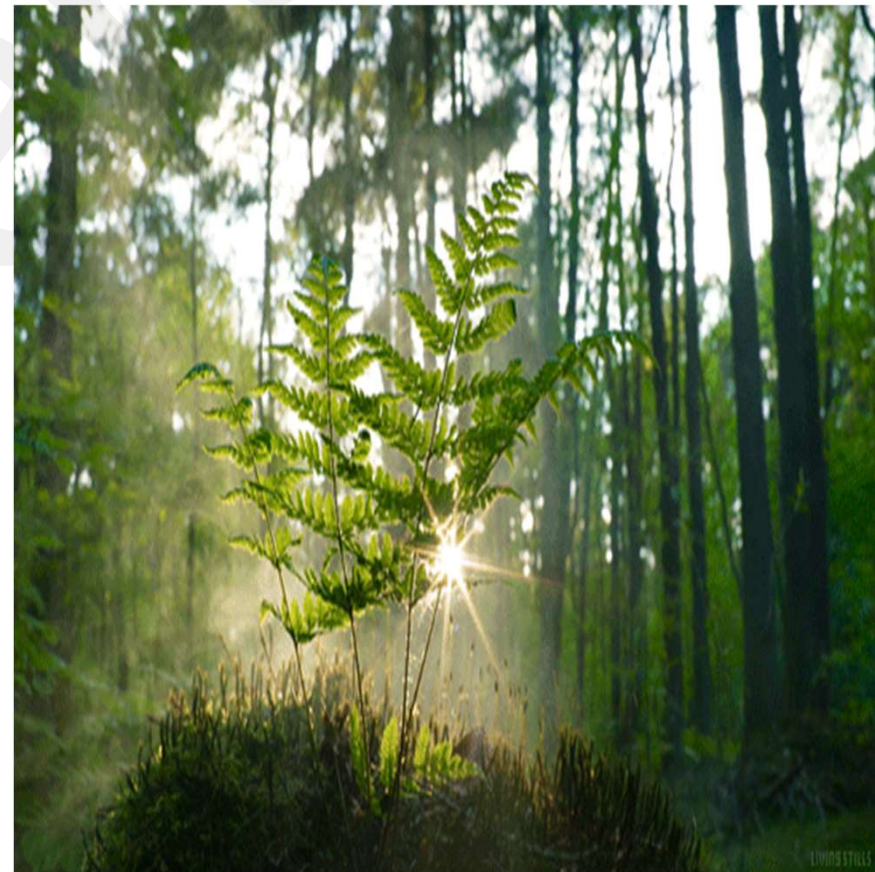
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Natural vegetation and wildlife

- Silk worms on mulberry trees gives us silk.
- In eastern region bamboo grew in plenty (can make baskets, chairs)
- Vegetation and plants provide us products for daily use. Wild life and vegetation only exist between litho,hydro and atmosphere that we call biosphere.

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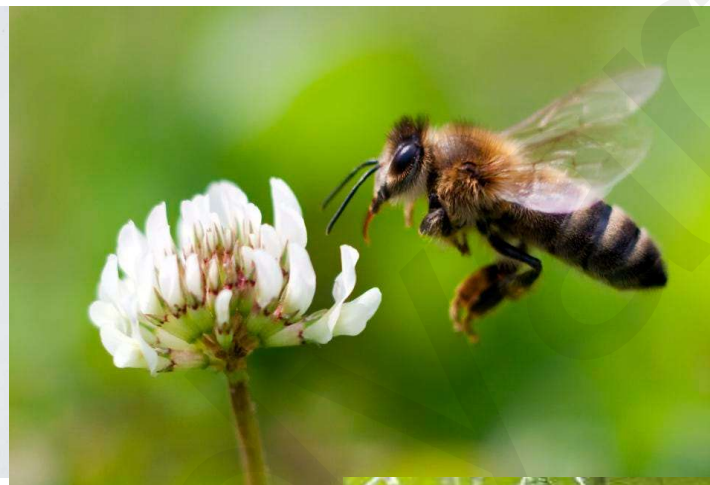
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- Life supporting system is called ecosystem.
- Plants gives us gum,honey,fruits,paper,medicine etc.
- Bee makes honey, helps in pollination, is a decomposer too.
- Vulture eats dead animals, is a scavenger cleanses the environment.
- They all maintain and balance.

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Distribution of natural vegetation

- Growth of forest depends on temp. and moisture types- grasslands ,scrubs, tundra.
- Thorny Scrubs grow in dry areas of low rainfall(have deep roots, thorny texture)
- Short trees and grass grows in moderate rainfall(grassland)

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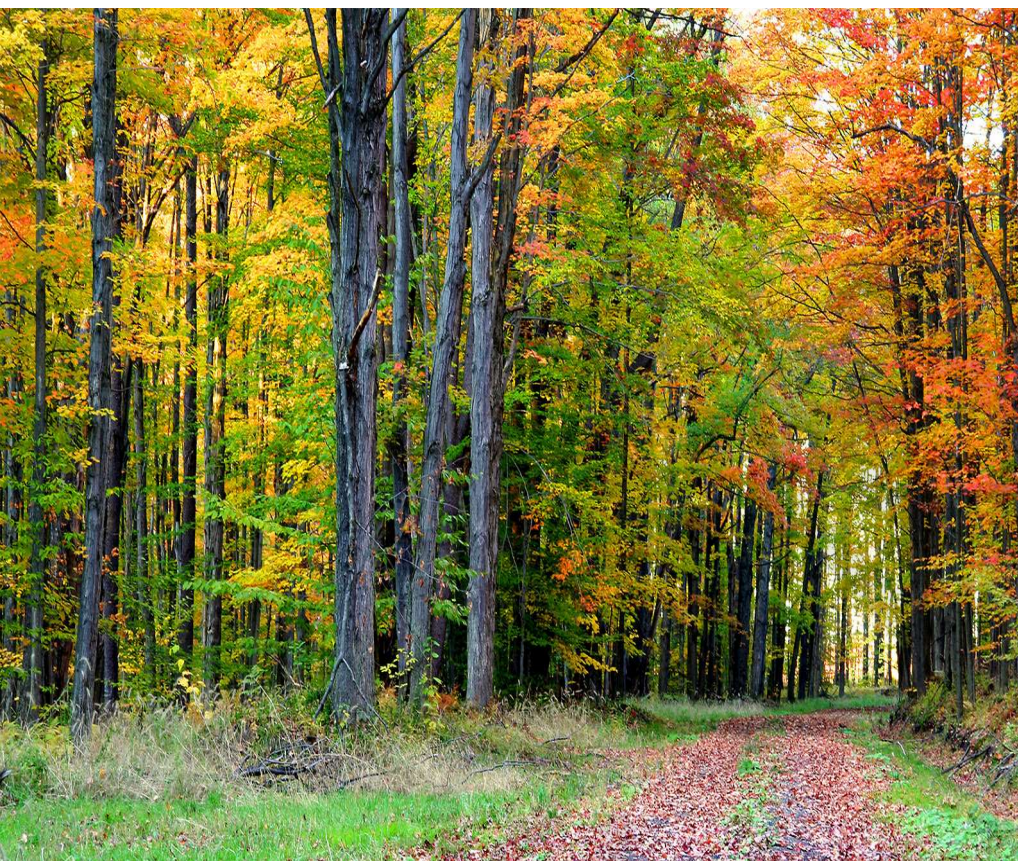
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- Forest have abundance of water.
- **Evergreen**- do not shed their leave in any reason.
- **Deciduous**- shed their leaves in a particular season.

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Conservation of natural vegetation and wildlife

- Poaching(animals-peacock,tiger,lions,ostrich, elephants, leopard).
- Tsunami, landslide construction work(human activities and natural)

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- Killing of birds animals are illegal, CITES established many projects for their protection.
- Conservation of plants and animals are every citizen's ethical duty.

