

Natural vegetation refers to a plant community that has been left undisturbed over a long time, so as to allow its individual species to adjust themselves to climate and soil conditions as fully as possible.

Himalayan heights are marked with temperate vegetation;

the Western Ghats and the Andaman Nicobar Islands have tropical rain forests,

the deltaic regions have tropical forests and mangroves;

the desert and semi desert areas of Rajasthan are known for cacti, a wide variety of bushes and thorny vegetation.

Depending upon the variations in the climate and the soil, the vegetation of India changes from one region to another.

On the basis of certain common features such as predominant vegetation type and climatic regions, Indian forests can be divided into the following groups:

### TYPES OF FORESTS

- (i) Tropical Evergreen and Semi Evergreen forests
- (ii) Tropical Deciduous forests
- (iii) Tropical Thorn forests
- (iv) Montane forests
- (v) Littoral and Swamp forests.

### Tropical Evergreen and Semi Evergreen Forests

1. These forests are found in the western slope of the Western Ghats, hills of the northeastern region and the Andaman and Nicobar Islands.

2. They are found in warm and humid areas with an annual precipitation of over 200 cm and mean



3. Tropical evergreen forests are well stratified, with layers closer to the ground and are covered with shrubs and creepers, with short structured trees followed by tall variety of trees.

4. trees reach great heights up to 60 m or above.

5. There is no definite time for trees to shed their leaves, flowering and fruition.

As such these forests appear green all the year round.

6. Species found in these forests include rosewood, mahogany, aini, ebony, etc.

### SEMI EVERGREEN FOREST

1. The semi evergreen forests are found in the less rainy parts of these regions.

2. Such forests have a mixture of evergreen and moist deciduous trees.

3. The under growing climbers provide an evergreen character to these forests.

4. Main species are white cedar, hollock and kail.

5. The oak forests in Garhwal and Kumaon were replaced by pine (chirs) which was needed to lay railway lines.

6. Forests were also cleared for introducing plantations of tea, rubber and coffee.

## Tropical Deciduous Forests



1. These are the most widespread forests in India.
2. They are also called the monsoon forests.
3. They spread over regions which receive rainfall between 70-200 cm.
4. On the basis of the availability of water, these forests are further divided into moist and dry deciduous.

### The Moist deciduous forests

1. They are mostly found in the regions which record rainfall between 100-200 cm.
2. These forests are found in the northeastern states along the foothills of Himalayas, eastern slopes of the Western Ghats and Odisha.
3. Teak, sal, shisham, hurra, mahua, amla, semul, kusum, and sandalwood



etc. are the main species of these forests.

### Dry deciduous forest

1. covers vast areas of the country,
  2. rainfall ranges between 70 -100 cm.
  3. On the wetter margins, it has a transition to the moist deciduous, while on the drier margins to thorn forests.
  4. These forests are found in rainier areas of the Peninsula and the plains of Uttar Pradesh and Bihar.
  5. park lands are found in the higher rainfall regions of the Peninsular plateau and the northern Indian plain,
  6. As the dry season begins, the trees shed their leaves completely and the forest appears like a vast grassland with naked trees all around. *Tendu, palas, amaltas, bel, khair*, axlewood, etc. are the common trees of these forests.
- In the western and southern part of Rajasthan, vegetation cover is very scanty due to low rainfall and overgrazing.



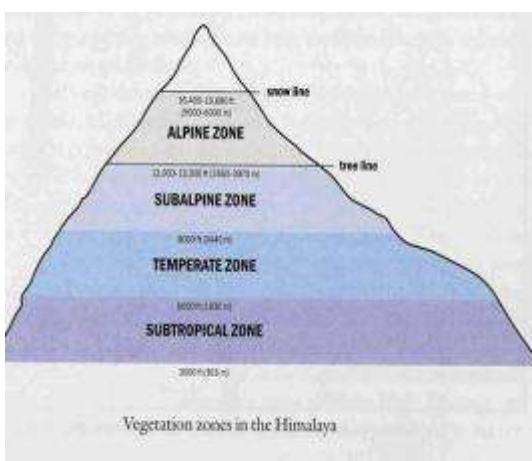
height of 2 m

## Tropical Thorn Forests

1. Tropical thorn forests occur in the areas which receive rainfall less than 50 cm.
2. These consist of a variety of grasses and shrubs.
3. It includes semi-arid areas of south west Punjab, Haryana, Rajasthan, Gujarat, Madhya Pradesh and Uttar Pradesh.
4. In these forests, plants remain leafless for most part of the year and give an expression of scrub vegetation.
5. Important species found are *babool, ber*, and wild date palm, *khair, neem, khejri, palas*, etc.
6. Tussocky grass grows upto a

as the under growth.

## Montane Forests



1. In mountainous areas, the decrease in temperature with increasing altitude leads to a corresponding change in natural vegetation.
2. Mountain forests can be classified into two types, the northern mountain forests and the southern mountain forests.
3. The Himalayan ranges show a succession of vegetation from the tropical to the tundra, which change in with the altitude.

5. Deciduous forests are found in the foothills of the Himalayas.

1. It is succeeded by the wet temperate type of forests between an altitude of 1,000-2,000 m.