



CLASS: IV

Subject: Science

Date: 28-05-2020

Topic: Adaptations in plants

Time Limit: 30 minutes

Worksheet No. : 9

[Copy the questions following the notes and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]

Plants in hilly areas :-

In hilly areas, the weather is cold and some parts receive normal to heavy snowfall. The trees adapt to survive the extreme climatic conditions. Some of the adaptations of trees in the hilly areas are -

- The trees are **tall** and **Conical** in shape. The conical shape of the trees helps the snow to slide off the trees easily.
- They have needle - shaped leaves with a waxy coating to protect them from the cold and from the strong wind.
- They usually **do not** have **flowers**, but instead **have cones**.

Fir, pine, cedar and spruce are some common examples of trees found in the hilly areas.



Fir tree



Pine tree



Cedar tree



Spruce tree

Plants in Marshy Areas :-

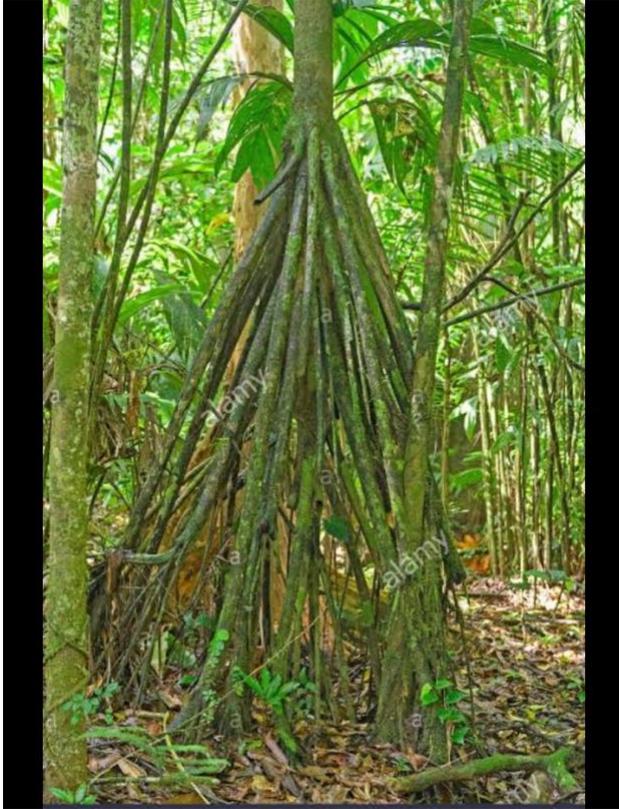
The region that is present near the sea or a river is called marshy land.

The soil in marshy regions has more water and little or no air. Therefore, the roots of the plants in marshy regions do not get enough air to breathe. Plants in these regions adapt so that the roots obtain fresh air. **The roots of these plants grow above the clayey soil to breathe, these are called breathing roots.**



Breathing roots

Apart from this, **stilt roots** grow under water from the trunk of the plant to support the plant.



Stilt roots

Mangrove trees are the most common examples of plants that grow in marshy regions.



Mangrove trees

Now let us try to answer the following questions :-

1. **Fill in the blanks with suitable words :-**

- a. The trees in hilly areas are ___ and ___.
- b. The leaves of trees in hilly areas have ___ coating .
- c. The trees in hilly areas usually do not have flowers , but instead they have _____.
- d. _____ is an example of a tree that grow in hilly areas.
- e. The region that is present near the sea or a river is called _____ .
- f. _____ are examples of plants that grow in marshy regions.

2. **Learn the answer of the following questions :-**

a. **What are breathing roots?**

Ans. The roots of the plants in marshy regions grow above the clayey soil to breathe, these are called breathing roots.

b. **Why do trees in hilly regions have waxy coating on their leaves?**

Ans. Trees in hilly regions have waxy coating on their leaves to protect them from the cold and from the strong wind.