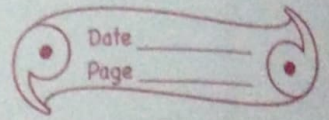


Tissues



Homework-2

- 1) Define secondary growth.
- 2) Name the meristematic tissue responsible for secondary growth.
- 3) What are the two types of cambium. Write one difference between them?
- 4) Explain how bark of a tree is formed? How does it act as a protective tissue?

Answers

- 1) The increase in girth of a plant due to the cell division in lateral meristem is called as secondary growth.
- 2) The meristematic tissue responsible for secondary growth is lateral meristem.
- 3) The two types of cambium are :-
 - ⇒ Cork Cambium
 - ⇒ Vascular cambium.

One difference between cork cambium and vascular cambium is :-

Cork Cambium

It originates from the cork or pericycle.

Vascular cambium

It exists between vascular membranes of xylem and phloem.

4) The meristematic tissue present in the cortex region divides to form the cork cambium. The cork cambium then makes new bark cells and in this way bark of a tree is formed.

The bark act as a protective tissue in several ways :-

- ⇒ It protects the tree from desiccation by decreasing the rate of transpiration.
- ⇒ The bark of tree consists of chemical called suberin which do not allow water and gas to pass through them.
- ⇒ It also protects the trees from harsh environment and also from entry of microbes.