

Homework :-

① Define secondary growth?

Ans :- Secondary growth is an increase in girth (width) of a plant initiated by cell divisions in lateral meristems.

② Name the meristematic tissue responsible for secondary growth in stems.

Ans :- Lateral meristematic tissue.

③ What are the two types of cambium?

Ans :- Cork cambium and vascular cambium.

Cork cambium

Vascular cambium.

* Originates from cortex or pericycle. It gives cork to the outside & secondary cortex to the inside.

* It exists in the vascular bundles between the xylem & phloem. It gives secondary phloem to the outside & secondary xylem to the inside.

④ Explain how bark of a tree is formed how does it act as a protective tissue?

Ans :- Bark of a tree is formed as a

result of the secondary growth in the plants. Cork cambium or phellogen originates from cortex or pericycle. It gives cork to the outside & secondary cortex (phelloderm) to the inside. Vascular cambium or fascicular cambium exists in the vascular bundles between the xylem and phloem. It gives secondary phloem to the outside and secondary xylem to the inside. Like this, bark of a tree is formed. The bark is act as a protective layer because it is a water proof layer present on the trees to prevent loss of water through evaporation.