H/W

Date 3/7/21
Page 5

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) Cambium is the meristematic tissue responsible for secondary growth in stems.

3) What are the two types of cambium? Write one difference b/w them.

Ans) The two types of cambium are :-

i) Cork Cambium.

ii) Vascular Cambium.

Cork Cambium	Vascular Cambium.
→ It originates from cortex / pericycle.	→ It exists in the vascular bundle b/w the xylem & phloem.

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

→ Bark is the outermost covering of stems & roots of old plants.

→ Bark is formed as a result of the secondary growth in the plants.

→ Phallogen cut the cell inside as phelloderm or secondary cortex & outside as phellem of cork.

→ The Bark is a waterproof protective layer present on the trees to prevent loss of water through evaporation.

→ Since it is majorly consists of ~~dead~~ dead cell, it forms a rigid covering that protects the interior of the plant from the entry of harmful micro~~bes~~ - organisms, mechanical injury, high temp. etc.