HW
5.7.21

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(1) Define Secondary growth.

Ans Secondary growth is an increase in girth (width) of a plant by cell division in lateral meristem.

(2) Name the meristmatic tissue responsible for secondary growth in stems.

Ans: Lateral meristmatic tissue is responsible for secondary growth in stems.

(3) What are the two types of cambium? Write one difference between them.

Ans. Two types of cambium are:-

→ Cork Cambium

→ Vascular Cambium

One difference between cork cambium and vascular cambium:-

Cork Cambium	Vascular Cambium
→ It produces the cork and secondary cortex.	→ It produces secondary xylem and secondary phloem.

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

Ans. Bark of tree is formed from the division of cork resulting in secondary growth of plants. Phallogen cuts the cell inside as phelloderm or secondary cortex and outer side as phellem of cork.

→ The bark of tree consists of dead cells, it forms a rigid covering that protects the interior of the plant.

→ It helps in desiccation (remove moisture).

→ It prevents the loss of water.

→ It protects the cambium from heat and U.V radiation.

→ It protects from attack of microorganisms such as bacteria, fungi, insects etc.