

Botany B – Unit 1 – Plant Tissue

Meristematic Tissues

- _____ – the growth regions where _____ actively _____
 - _____ – Known as “_____” growth. Tips of roots & shoots, increase in _____
 - _____ – _____ growth. Tissues that increase _____ of roots & stems

Lateral Meristems

- _____ –
 - _____ – growth rings
 - _____ – Bark & cork; provides _____, _____, & _____
 - _____ Conducting Tissue
 - _____ – Water up
 - _____ – Food away

Tissues produced by

- _____ cells – The most abundant of all cell types, found in almost all major parts of plants
 - Thin, pliable _____ can be up to _____
 - _____ cells with numerous _____ are called _____
 - Function in _____
 - _____ cells without _____ function mainly in food & water _____
 - _____ cells play a vital role in _____
- _____ cells – _____ generally _____ than _____ cells.
 - Provide flexible _____ for both _____ & _____ organs (leaves, flower parts, etc...)
 - Generally occur just below the _____
 - Celery “_____” are an example of _____
- _____ cells – Thick, tough, _____
 - Strengthened by “_____”
 - Most _____ cells are _____ at maturity, function in _____ and _____
 - “_____” are related cells – _____ cells found throughout all plant tissues; sometimes called “_____”

Complex Tissue – Epidermis

- _____ layer of _____ in all young plants
 - Usually _____ thick
 - Most _____ cells secrete a _____ substance called “_____”
 - A layer of _____ is called the “_____”
 - Prevents _____ loss – “_____”
 - Exceptionally resistant to _____
 - _____ – small “_____” in the _____
 - _____ – regulate _____ rate
- _____ – specialized _____ cells
 - _____ to reduce _____ loss
 - _____ – oils, fragrance, enzymes
 - _____ – acids (nettles)
 - _____ – stimulate reaction in _____ plants (fly trap)
- _____ – Formed when outer _____ produces enough _____ to split

 - Secretes “_____”
 - _____ substance which blocks _____ & _____ movement
 - Makes cork cells _____; protects _____ & other tissue below bark

Other Complex Tissues

- _____ – Dead _____ cells in _____ tissue
 - Aid in _____ conduction/transport
 - Provide _____
- _____ cells – _____ transport in _____ tissue
 - Translocation of _____ through “_____”

Secretory Tissues

- _____ cells “_____”
 - _____ (we talked about these 3 slides ago)
 - _____ – nectar
 - _____ – water
 - _____ – contains oils, resins
 - _____ – latex rubbers, alkaloids