

I. Plant vegetative organs

A. shoot

stem

leaf

B. root

II. Plant tissues- 2 major categories

A. meristematic

B. non-meristematic tissues

1. epidermis

cutin & wax

hairs &/or glands

stomata

stoma

guard cells

2. ground tissue

a. regions

cortex

pith

b. cells

1) parenchyma

chlorenchyma (in mesophyll)

2) collenchyma

3) sclerenchyma

lignin

(a) sclereids

(b) fibers

3. vascular tissues

a. xylem

pits
cells

(a) tracheid

(b) vessel element

b. phloem

cells

(a) sieve-tube member

sieve plates

(b) companion cell

4. secretory tissues

5. periderm

a. cork cells

suberin

b. cork cambium

c. lenticels

III. Meristems

A. apical meristems

1. shoot

2. root

B. primary meristems

1. protoderm

2. ground meristem

3. procambium

C. lateral/secondary meristems

1. vascularcork cambium

2. cork cambium

3. how does vascular cambium add cells?

4. what is wood?

5. what is bark?

D. intercalary meristems