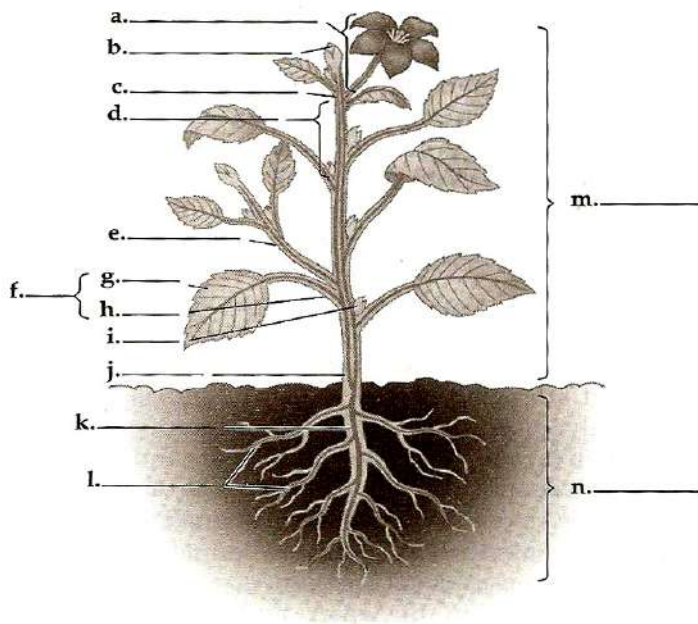


Chapter 35: Plant Structure, Growth, and Development

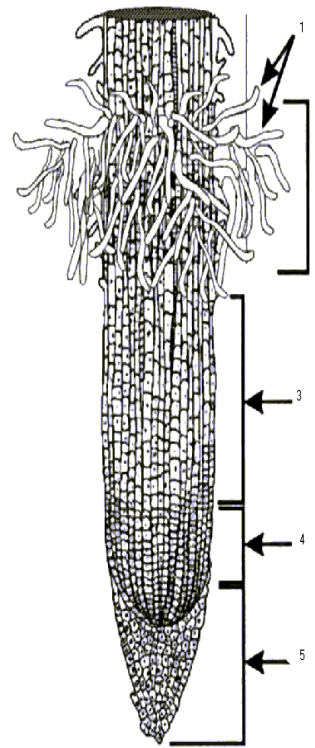
1. Describe the structure and function of these three basic plant organs:
 - (a) Roots
 - (b) Stems
 - (c) Leaves
2. Describe the 3 types of plant tissues:
 - (a) Dermal
 - (b) Vascular
 - (c) Ground
3. For each of the plant cell types listed below, describe the structure, function, and location.
 - (a) Parenchyma:
 - (b) Xylem cells:
 - (c) Phloem cells:
 - i. Sieve-tube elements:
 - ii. Companion cells:
4. What are meristems?
5. Describe the location and function of:
 - (a) Apical meristems
 - (b) Lateral meristems
6. Contrast primary and secondary growth. What is the relationship between the two?
7. Contrast annuals, biennials, and perennials.
8. Draw and label the primary growth of a root. Label the three zones of cells and what occurs at each zone.
9. Beginning at the center of a tree trunk, list the layers as you proceed outward to the bark.

INTERACTIVE QUESTION 35.1

Label the parts in the following diagram of a flowering plant.



Label the following diagram of a plant root.



INTERACTIVE QUESTION 35.5

Name the indicated structures in the following diagram of a leaf.

