

Name: _____

Date: _____

Structure and Function of Plant Roots

1. Roots which originate from stems, branches, leaves, or other unusual places on the plant are known as _____.
2. A tap root is usually formed by thin, moderately branching roots growing from the stem.
 - a. True
 - b. False
3. What is the function of plant roots?
 - a. to collect sunlight
 - b. to absorb nutrients from the soil
 - c. to produce flowers for reproduction
 - d. to eliminate wastes from the leaves
4. Which of these is an example of a plant with a taproot system?
 - a. carrot
 - b. grass
 - c. pine
 - d. lettuce
5. What is the layer of tissue called that can be found just underneath the epidermal layer of a plant root?
 - a. the cortex
 - b. the endodermis
 - c. the root cap
 - d. the root hairs
6. What is the structure called that promotes growth and elongation of the plant root?
 - a. the root hairs
 - b. the vascular cylinder
 - c. the apical meristem
 - d. the Casparian strip
7. Where would ground tissue be found in a plant root?
 - a. within the vascular cylinder
 - b. on the outside of the root
 - c. inside of the root hairs
 - d. just underneath the outer layers
8. Which structure increases the root's surface area to allow for more water and mineral absorption?
 - a. the apical meristem
 - b. the root hairs
 - c. the epidermal tissue
 - d. the cortex