

Botany Chapter 1 Quiz

Name _____

Date _____ / _____ / _____

1. The botanical name for mountain laurel is *Kalmia latifolia*. What is the species and genus of this plant?

Genus: *Kalmia* *latifolia*

Species: *Kalmia* *latifolia*

2. Plants are categorized by their growth habits. Which one is **not** a growth habit category for plants?
- a. Shrubs, trees, and ground cover
 - b. Evergreen and herbaceous
 - c. Annuals, biennials, and perennials
 - d. Monocots and dicots
3. Which of the following statements is true about stems?
- a. The outer bark protects the plant from desiccation, insects, and disease.
 - b. Xylem, phloem, and vascular cambium are the major part of plant stems.
 - c. A dicot tree may die if its trunk is girdled because the vascular system is just inside the bark.
 - d. Underground stems include rhizomes, bulbs, and corms.
 - e. All of the above is true.
4. What are the small openings in a leaf's epidermal layer through which water, oxygen, and carbon dioxide flow?
- a. Stomata
 - b. Guard cells
 - c. Lungs
 - d. Chloroplasts
5. **True or False**: Incomplete flowers might have stamens and pistils.

6. What are the 4 components of a complete flower?
- Petals, stamen, ovaries, anther
 - Sepal, anther, ovules, petals
 - Sepal, petals, stamen, pistil
 - Petals, stigma, pistil, sepal
7. Which one is **not** a plant underground storage unit?
- Bulb
 - Tuber
 - Stolon
 - Corm
8. **True or False**: Asexual reproduction produces genetically identical offspring to the parent plant.
9. The process whereby a plant converts energy from sunlight, CO₂ from the air, and water from the soil into carbohydrates is called:
- Transpiration
 - Respiration
 - Photosynthesis
 - None of the above
10. Which of the following is **not** a class of plant hormones?
- Abscisic acid
 - Auxin
 - Adenosine triphosphate (ATP)
 - Ethylene