

Name: \_\_\_\_\_Key\_\_\_\_\_

Date: \_\_\_\_\_

## Quiz 4

To earn full credit, please answer each question using complete sentences. You can write on the back of the page as needed.

0.5 pt is deducted per question when complete sentences are not used to answer the question.

1. What are the two organ systems in plants? (2 pts)

*The root system and the shoot system comprise the two plant organ systems.  
(1 pt for each system)*

2. What are three organs of plants? Why are these structures considered organs? (3 pts)

*The three organs of plants are roots, stems, and leaves. These structures are considered organs because they are comprised of tissues working together for a common function.  
(0.75 pt for each organ and for why they are organs)*

3. Describe two of the three types of plant tissues and summarize their functions. (2 pts)

*Dermal tissue is external and provides protections from water loss and ability for gas exchange.  
Vascular tissue is internal and allows the transport of water and nutrients in the plant.  
Ground tissue is internal and provides numerous functions including metabolism and support.  
(1 pt for each type with a brief description of the function.)*

4. We discussed examples of modified plant organs. Provide three examples of modified plant organs and indicate how they may help the plant (3 pts)

*Answers will vary. We discussed modified roots (prop, buttress, pneumatophore, storage, and strangling aerial), stems (stolons, rhizomes, tubers), and leaves (spines, tendrils, reproductive, storage). Any combination of three modifications will be accepted.  
(0.5 pt for modified organ and 0.5 pt for its aid to the plant)*