Horticulture Knowledge Challenge

Horticulture · Answer Key · 8 Questions

1. Which plant part is primarily responsible for absorbing water and dissolved minerals from the soil?

A) The stomata
B) The xylem
C) The root hairs
D) The phloem

2. What is the process by which plants use sunlight to convert carbon dioxide and water into glucose?

A) Respiration
B) Photosynthesis
C) Transpiration
D) Germination

3. Which of these common vegetables is botanically classified as a fruit because it contains seeds?

A) Carrot
B) Potato
C) Tomato
D) Broccoli

4. What is the term for the plant hormone that causes stems to grow towards a light source?

A) Auxin
B) Ethylene
C) Gibberellin
D) Abscisic acid

5. In which soil type, known for having a high proportion of organic matter and good water retention, do many garden plants thrive?

A) Sandy soil
B) Clay soil
C) Loam soil
D) Silty soil

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6. Which part of the flower is responsible for producing pollen grains?

A) The stigma
B) The anther
C) The ovary
D) The sepal

7. What is the primary function of the waxy layer on a leaf known as the cuticle?

A) To attract pollinators
B) To store excess sugar
C) To reduce water loss through evaporation
D) To absorb atmospheric nitrogen

8. Which structure on the underside of a leaf allows for the exchange of gases such as oxygen and carbon dioxide?

A) Stomata
B) Petiole
C) Midrib
D) Cuticle

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