

# Horticulture Knowledge Assessment

Horticulture · Answer Key · 15 Questions

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**1. What is the process of removing the top layer of bark from a tree trunk to kill it called?**

- A) Girdling**
- B) Pruning
- C) Coppicing
- D) Pollarding

**2. Which nutrient is primarily responsible for promoting healthy leaf growth and a deep green color in plants?**

- A) Phosphorus
- B) Potassium
- C) Nitrogen**
- D) Calcium

**3. What is the term for a plant that completes its entire life cycle, from germination to seed production, in one growing season?**

- A) Perennial
- B) Biennial
- C) Ephemeral
- D) Annual**

**4. Which botanical term refers to the process of plants losing water through the pores in their leaves?**

- A) Transpiration**
- B) Respiration
- C) Photosynthesis
- D) Guttation

**5. What is the primary function of the xylem in vascular plants?**

- A) Transporting sugars from leaves
- B) Transporting water from roots**
- C) Providing structural support
- D) Producing pollen

**6. Which type of propagation involves growing a new plant from a single cell or small group of cells in a sterile laboratory environment?**

- A) Layering
- B) Grafting
- C) Tissue culture**
- D) Division

**7. What is the ideal pH range for most garden vegetables to ensure optimal nutrient uptake?**

- A) 4.0 to 5.0
- B) 6.0 to 7.0**
- C) 8.0 to 9.0
- D) 9.0 to 10.0

**8. What is the practice of training fruit trees to grow against a wall or fence called?**

- A) Espalier**
- B) Topiary
- C) Bonsai
- D) Sculpting

**9. Which horticultural term describes the process of allowing seeds to go through a cold period before they will germinate?**

- A) Scarification
- B) Stratification**
- C) Dormancy
- D) Vernalization

**10. In soil science, which particle size is the smallest?**

- A) Sand
- B) Silt
- C) Clay**
- D) Loam

**11. What type of plant is a 'lithophyte'?**

- A) A plant that grows in water
- B) A plant that grows on rocks**
- C) A plant that grows in shade
- D) A plant that grows in high salt soils

**12. What is the primary purpose of 'deadheading' in flower gardening?**

- A) To increase root growth
- B) To prevent disease

**C) To encourage further blooming**

- D) To harden off the plant

**13. Which of these is a form of asexual plant propagation?**

- A) Sowing seeds

**B) Cuttings**

- C) Pollination
- D) Cross-breeding

**14. What is the scientific term for the study of the classification of plants?**

**A) Taxonomy**

- B) Ecology
- C) Morphology
- D) Pomology

**15. Which plant hormone is responsible for cell elongation and is often used in rooting powders?**

- A) Ethylene
- B) Gibberellin

**C) Auxin**

- D) Absciscic acid