

# Introduction to Horticulture

Horticulture · Answer Key · 18 Questions

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**1. Which part of a plant is primarily responsible for absorbing water and nutrients from the soil?**

A) Leaves

**B) Roots**

C) Flowers

D) Stems

**2. What is the process by which green plants use sunlight to synthesize nutrients from carbon dioxide and water?**

A) Respiration

B) Germination

**C) Photosynthesis**

D) Transpiration

**3. Which of these is a common method of propagating new plants from an existing plant's stem?**

A) Cuttings

B) Grafting

C) Layering

**D) All of the above**

**4. What is the term for the outer covering of a seed?**

A) Cotyledon

**B) Seed coat**

C) Embryo

D) Endosperm

**5. Which essential element do plants primarily absorb from the air for photosynthesis?**

A) Oxygen

B) Nitrogen

**C) Carbon dioxide**

D) Hydrogen

**6. What is the primary function of the flower on a flowering plant?**

**A) Reproduction**

B) Water storage

C) Photosynthesis

D) Structural support

**7. Which of these is a botanical fruit, even though it is often treated as a vegetable in cooking?**

- A) Carrot
- B) Potato
- C) Tomato**
- D) Lettuce

**8. What is the main purpose of mulch in a garden?**

- A) To add weight to the soil
- B) To retain soil moisture and suppress weeds**
- C) To change the color of the flowers
- D) To repel all insects

**9. What type of plant lives for more than two years?**

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

**10. Which mineral nutrient is most commonly associated with promoting green, leafy growth in plants?**

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

**11. What tool is most commonly used for trimming small branches or dead flower heads?**

- A) Shovel
- B) Rake
- C) Pruning shears**
- D) Hoe

**12. Which of these is considered a 'bulb' plant?**

- A) Tulip**
- B) Rose
- C) Sunflower
- D) Fern

**13. What is the primary substance that gives plants their green color?**

- A) Xylem
- B) Chlorophyll**
- C) Pollen
- D) Nectar

**14. What is the correct term for the science and art of growing fruits, vegetables, and ornamental plants?**

- A) Zoology
- B) Horticulture**
- C) Geology
- D) Astronomy

**15. Which soil component is known for having the smallest particles and holding the most water?**

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

**16. What is the process of removing excess or dead branches from a tree or shrub?**

- A) Pollination
- B) Pruning**
- C) Composting
- D) Germination

**17. Which of these is an example of a tuber?**

- A) Onion
- B) Potato**
- C) Carrot
- D) Garlic

**18. What do plants release into the atmosphere as a byproduct of photosynthesis?**

- A) Oxygen**
- B) Carbon dioxide
- C) Nitrogen
- D) Methane