Horticulture Fundamentals

Horticulture · Answer Key · 25 Questions

1. Which process do plants use to convert sunlight into chemical energy?

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

2. What is the primary function of a plant's root system?

A) Producing seeds
B) Absorbing water and nutrients
C) Conducting photosynthesis
D) Attracting pollinators

3. Which part of the plant is responsible for gas exchange with the atmosphere?

A) Stomata
B) Xylem
C) Phloem
D) Petiole

4. What is the main purpose of chlorophyll in plant leaves?

A) Repelling insects
B) Absorbing light energy
C) Storing excess water
D) Strengthening stems

5. Which soil component is composed of decayed organic matter?

A) Sand
B) Silt
C) Humus
D) Clay

6. What is the scientific term for the growth of a plant toward a light source?

A) Geotropism
B) Hydrotropism
C) Phototropism
D) Thigmotropism

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7. Which element is considered a primary macronutrient for plant growth?

A) Nitrogen
B) Gold
C) Silver
D) Lead

8. What is the protective outer layer of a leaf called?

A) Cuticle
B) Cambium
C) Pith
D) Cortex

9. Which plant tissue is responsible for transporting water from roots to leaves?

A) Phloem
B) Xylem
C) Epidermis
D) Stamen

10. What is the reproductive organ of an angiosperm plant?

A) Root
B) Stem
C) Flower
D) Leaf

11. In which soil type are particles the smallest and most tightly packed?

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

12. What is the process of a seed beginning to grow into a plant called?

A) Pollination
B) Germination
C) Fertilization
D) Dormancy

13. Which plant part anchors the plant and stores carbohydrates?

A) Leaf
B) Flower
C) Root
D) Fruit

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14. What substance do plants release as a byproduct of photosynthesis?

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

15. Which of the following is a type of modified stem?

A) Tuber
B) Taproot
C) Fibrous root
D) Root hair

16. What is the main function of the plant's cuticle?

A) Increasing pollination
B) Reducing water loss
C) Conducting photosynthesis
D) Absorbing sunlight

17. Which environmental factor most directly influences the rate of transpiration?

A) Humidity
B) Soil acidity
C) Seed color
D) Stem length

18. What are the male reproductive parts of a flower called?

A) Carpel
B) Stamen
C) Sepal
D) Ovary

19. Which nutrient is typically associated with promoting root and flower development?

A) Nitrogen
B) Phosphorus
C) Iron
D) Calcium

20. What is the scientific name for the stalk that attaches a leaf to the stem?

A) Petiole
B) Blade
C) Node
D) Vein

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21. What is the primary function of fruit in a flowering plant?

A) Seed dispersal
B) Photosynthesis
C) Water absorption
D) Structural support

22. Which of the following describes a plant that completes its life cycle in one year?

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

23. What is the movement of water through a plant from roots to leaves known as?

A) Transpiration
B) Respiration
C) Oxidation
D) Combustion

24. Which structure in the flower develops into the seed after fertilization?

A) Ovary
B) Anther
C) Stigma
D) Sepal

25. What is the function of the plant's phloem?

A) Transporting sugars
B) Transporting water
C) Anchoring the plant
D) Absorbing nitrogen

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