

Plant Anatomy Quiz PDF

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Which of the following are modifications of leaves? (Select all that apply)

- Spines
- Tendrils
- Tubers
- Bulbs

What are the functions of roots in plants? (Select all that apply)

- Absorption of water
- Photosynthesis
- Anchorage
- Nutrient storage

What role do stomata play in plant physiology, and how do they function?

How do xylem and phloem differ in structure and function?

Describe how plant adaptations, such as root nodules or succulent leaves, help plants survive in specific environments.

Which of the following are parts of a typical flower? (Select all that apply)

- Sepals
- Petals
- Stamen
- Roots

What is the main function of the plant's epidermis?

- Photosynthesis
- Nutrient storage
- Protection
- Reproduction

Which part of the flower contains the ovules?

- Stamen
- Petal
- Sepal
- Pistil

Which type of growth is associated with the increase in thickness of stems and roots?

- Primary growth
- Secondary growth
- Tertiary growth
- Apical growth

Which cells are involved in the opening and closing of stomata?

- Sieve-tube elements
- Guard cells
- Tracheids
- Companion cells

Which of the following are types of ground tissue in plants? (Select all that apply)

- Parenchyma
- Collenchyma
- Sclerenchyma
- Xylem

Which structures are part of the plant's vascular system? (Select all that apply)

- Xylem
- Phloem
- Epidermis
- Cambium

Discuss the significance of meristems in plant growth and development.

Which plant structures are involved in reproduction? (Select all that apply)

- Flowers
- Seeds
- Leaves

Fruits

What is the function of the vascular cambium?

- Produces flowers
- Transports sugars
- Generates new xylem and phloem
- Stores nutrients

What is the primary role of chloroplasts in plant cells?

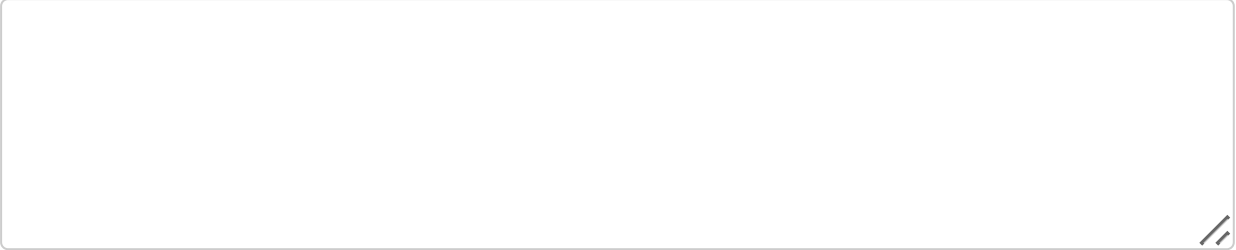
- Water storage
- Energy production
- Photosynthesis
- Cell division

Which part of the plant is primarily responsible for water and nutrient absorption?

- Stem
- Leaf
- Root
- Flower

Describe the differences between primary and secondary growth in plants.

Explain the process of photosynthesis and its importance to plant life.



What type of tissue is responsible for transporting water in plants?

- Phloem
- Xylem
- Epidermis
- Parenchyma