

# PLANT TISSUES & ORGANS

## Big Picture

Plants have specialized cells not found in animal cells, such as cells that carry out photosynthetic functions. A group of the same type of cells doing the same job makes up a tissue. Vascular tissues, which transport fluids, are one type of tissues found in vascular plants. More than one type of tissue working together to do specific jobs form an organ. The parts of a plant that we can easily identify - roots, stems, and leaves - are examples of plant organs.

## Key Terms

**Parenchymal:** Type of plant cell that carries out photosynthesis, cellular respiration, and/or storage functions.

**Collenchymal:** Type of plant cell that functions to support the plant.

**Sclerenchymal:** Type of plant cell that functions to strengthen and support the plant.

**Xylem:** Type of vascular tissue in a plant that transports water and dissolved nutrients from roots to stems and leaves.

**Phloem:** Type of vascular tissue in a plant that transports food from photosynthetic cells to other parts of the plant.

**Meristem:** Type of plant tissues consisting of undifferentiated cells that can continue to divide and differentiate and from which plants grow in length or width.

**Primary Growth:** Plant growth in length.

**Secondary Growth:** Plant growth in width.

**Taproot:** Single, thick primary root that characterizes the root system of some plants.

**Fibrous Root:** Threadlike root that makes up part of the fibrous root system of some plants.

**Root System:** All the roots of a plant, including primary roots and secondary roots.

**Root Hair:** Tiny hair-like structure that extends from a plant root.

**Bark:** Tissue that provides a rough, woody external covering on the stems of trees.

**Stomata (singular: stoma):** Tiny pore in the epidermis of a plant leaf that controls transpiration and gas exchange with the air.

**Mesophyll:** Specialized tissue inside plant leaves where photosynthesis takes place.

**Cuticle:** Waxy, waterproof substance produced by cells on the surface of leaves, shoots, and other above-ground parts of plants.

**Deciduous Plant:** Type of plant that seasonally loses its leaves.

**Evergreen Plant:** Type of plant that keeps its leaves and stays green year-round.

## Plant Cells

Some structures found in plant cells but not in animal cells are:

- **Large central vacuole:** Contains water and dissolved substances. Helps give the cell shape and support the plant.
- **Cell wall:** Located outside the cell membrane. Shapes, supports, and protects the cell.
- **Plastids:** Organelles with their own DNA. Examples include chloroplasts, which contain the green pigment chlorophyll.

There are three different types of basic plant cells:

- **Parenchymal:** Contains chloroplasts. Carries out photosynthesis and cellular respiration. Stores organic molecules.
- **Collenchymal:** Elongated cells that provide support.
- **Sclerenchymal:** Cells with very thick walls that also provide support. More rigid than collenchymal cells.

All three of these cell types are found in most plant tissues.



Figure: Cross-section of a plant cell.

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# Plants Cells And Tissues Study Guide

**Disha Experts**



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**TABLE OF CONTENT**

Solved Paper 2019 Stage II Solved Paper 2018 Stage I Solved Paper 2018 Stage II Solved Paper 2017 Stage I

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## **Table of Contents Plants Cells And Tissues Study Guide**

1. Understanding the eBook Plants Cells And Tissues Study Guide
  - The Rise of Digital Reading Plants Cells And Tissues Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Plants Cells And Tissues Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Plants Cells And Tissues Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Plants Cells And Tissues Study Guide
  - Personalized Recommendations
  - Plants Cells And Tissues Study Guide User Reviews and Ratings
  - Plants Cells And Tissues Study Guide and Bestseller Lists
5. Accessing Plants Cells And Tissues Study Guide Free and Paid eBooks
  - Plants Cells And Tissues Study Guide Public Domain eBooks
  - Plants Cells And Tissues Study Guide eBook Subscription Services
  - Plants Cells And Tissues Study Guide Budget-Friendly Options
6. Navigating Plants Cells And Tissues Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Plants Cells And Tissues Study Guide Compatibility with Devices
- Plants Cells And Tissues Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Plants Cells And Tissues Study Guide
  - Highlighting and Note-Taking Plants Cells And Tissues Study Guide
  - Interactive Elements Plants Cells And Tissues Study Guide
- 8. Staying Engaged with Plants Cells And Tissues Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Plants Cells And Tissues Study Guide
- 9. Balancing eBooks and Physical Books Plants Cells And Tissues Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Plants Cells And Tissues Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Plants Cells And Tissues Study Guide
  - Setting Reading Goals Plants Cells And Tissues Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Plants Cells And Tissues Study Guide
  - Fact-Checking eBook Content of Plants Cells And Tissues Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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