

EXERCISE 8

THE LEAF AND ITS STRUCTURE

In vascular plants, a leaf is the lateral outgrowth of the stem whose main function is food synthesis. Leaves are generally broad, flattened and are borne at the nodes of the stem. Leaves vary greatly in form, size, shape, texture and in internal structures which have considerable value in identification and classification.

LEAF MORPHOLOGY

A. Dicotyledonous Leaf

1. Parts of the Leaf:

The outline (shape), apex (tip) and base of the leaf lamina or blade varies greatly. It has the following parts:

- a. **Blade (lamina)** – usually green, flat, thin and expanded part of the leaf, consisting of veins and veinlets.
- b. **Midrib** – midvein of the leaf. It is the dominant vein from which the secondary veins arise along either side.
- c. **Petiole** – the stalk of the leaf which attaches the blade to the node. There are some leaves that are stalkless, they are apetiolate or sessile.
- d. **Stipules** – a pair of appendages at the base of the petiole. It varies from tendril, leaf-like to spine (thorns) etc.

2. Leaf Types

Dicot leaf can either be simple or compound.

1. **Simple Leaf** – the blade is single piece, not divided into distinct parts.
2. **Compound Leaf** – the blade is divided into several piece (leaflets or pinnae) on a common petiole. It can be:
 - a. **Pinnately Compound** – the leaflets are arranged along the sides of an elongated rachis. It may be odd pinnate (one having a single terminal leaflet) or even pinnate (one having one or several pairs of leaflets).

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Biology 102 Lab Manual

Michael Seilmaier



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Table of Contents Biology 102 Lab Manual

1. Understanding the eBook Biology 102 Lab Manual
 - The Rise of Digital Reading Biology 102 Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology 102 Lab Manual
 - 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 Biology 102 Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 102 Lab Manual
 - Personalized Recommendations
 - Biology 102 Lab Manual User Reviews and Ratings
 - Biology 102 Lab Manual and Bestseller Lists
5. Accessing Biology 102 Lab Manual Free and Paid eBooks
 - Biology 102 Lab Manual Public Domain eBooks
 - Biology 102 Lab Manual eBook Subscription Services
 - Biology 102 Lab Manual Budget-Friendly Options
6. Navigating Biology 102 Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology 102 Lab Manual Compatibility with Devices
 - Biology 102 Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology 102 Lab Manual
 - Highlighting and Note-Taking Biology 102 Lab Manual
 - Interactive Elements Biology 102 Lab Manual
8. Staying Engaged with Biology 102 Lab Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Biology 102 Lab Manual
- 9. Balancing eBooks and Physical Books Biology 102 Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology 102 Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology 102 Lab Manual
 - Setting Reading Goals Biology 102 Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology 102 Lab Manual
 - Fact-Checking eBook Content of Biology 102 Lab Manual
 - 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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