

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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