

**TERMINAL.**—When found on the extremity of the principal axis (Fig. 20, a).

**AXILLARY.**—When found in the axils of leaves (Fig. 20, b).

*Accessory*, when two or more are found in the axil of a leaf (Fig. 21).

**ADVENTITIOUS.**—When found without order on stems, roots, or leaves.

## BRANCHES.

**ARRANGEMENTS.**—See Leaf.

### MODIFICATIONS.

(a) *Stolon*, a branch that bends downward to the earth and takes root (Fig. 22.) Ex., Currant.

(b) *Sucker*, a subterranean branch, which after running horizontally, rises out of the ground and forms an erect stem (Fig. 22). Ex., Rose.

(c) *Runner*, a slender prostrate branch, rooting at the ends or at the joints (Fig. 22). Ex., Strawberry.

(d) *Offset*, a short, prostrate rooting branch, with a tuft of leaves at the end (Fig. 23). Ex., Houseleek.

(e) *Tendril*, a thread-like, prolonged branch, leafless and coiling spirally. Ex., Grape-vine. Sometimes a slender prolongation of the midrib of a leaf. Ex., Pea.

(f) *Spine*, an indurated, sharp pointed, abnormally developed branch. Ex., Hawthorn.

## LEAF.

### PARTS.

**LAMINA OR BLADE.**—The broad, expanded portion (Fig. 24, a)

**PETIOLE.**—The leaf-stalk (Fig. 24 b.).

**SHEATH.**—A leaf-stalk which surrounds the stem (Fig. 25).

*Petiolate*, furnished with a petiole (Fig. 24).

*Sessile*, without a petiole (Fig. 16).

*Sheathed*, when the leaf-stalk surrounds the stem (Fig. 25).

**STIPULES.**—Two leaf-like appendages sometimes found at the base of the petiole (Fig. 24 c. c.).

*Stipulate*, furnished with stipules.

*Exstipulate*, without stipules (Fig. 16).

**LIGULE.**—The scale-like stipule which grows at the point of union of the blade and sheath in the leaves of grasses (Fig. 25).

### SITUATION.

**RADICAL.**—Those which appear to spring from the root.

**CAULINE.**—Those which spring from the stem or its branches.

### ARRANGEMENT.

**ALTERNATE.**—When only one leaf arises from each node (Fig. 7).



Fig. 20.



Fig. 21.



Runner. Sucker. Stolon.  
Fig. 22.



Fig. 23.



Fig. 24.



Fig. 25.