

- flat structure • Main photosynthetic organ • well supplied by vascular system.
- xylem : towards upper epidermis • Phloem : towards lower epidermis.

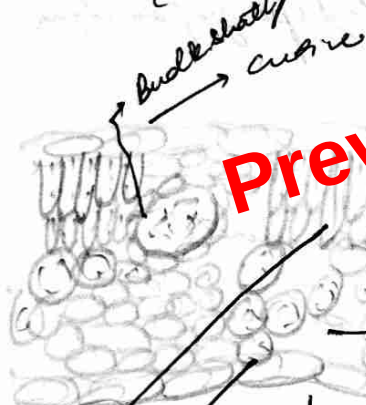
- (i) Dorsiventral : • Dicots • remains horizontal
- upper surface : ventral surface = adaxial surface
 - lower " : lower surface = abaxial surface
 - They are diff. in colour.

- (ii) Isobilateral : • monocots • remains vertical.
- Both their surface are equally coloured
 - are similar to one other.

1. Dicot leaf:

- (a) Epidermis : cover both surface

- (i) Adaxial epidermis : single layer • bulicircularized
- No chloroplast
 - ↓ stomata
 - It may be absent also



- (ii) Abaxial " : single layered • cuticularized
- ↓ stomata • Chlorophyll is found in guard cells.

- (b) Mesophyll : tissue b/w upper & lower epidermis.
- thin walled chloroplast containing punchy granules

- (i) Palisade parenchyma : adaxially • 1-2 layers
- elongated cells • 90° placed
 - 11 to one other • ↓ intercellular space.

- (ii) Spongy : abaxially placed • oval & round
- No arrangement of cells
 - Chloroplast is also present.