

ACTIVITY 4

STUDY OF ONION EPIDERMIS CELLS

Procedure:

- (i) Cut an onion bulb vertically. *Botanical Name:- Allium Cepa*
- (ii) Remove the epidermis of onion with the help of forceps.
- (iii) Transfer it in a watch glass having water and cut it into small pieces.
- (iv) Put one or two drops of **stain**, safranin or methylene blue, it is called staining.
- (v) Put few drops of water or glycerine on a clean slide and then a piece of onion epidermis on it by the help of paint brush. Cover it by a coverslip.
- (vi) Observe the slide under microscope.

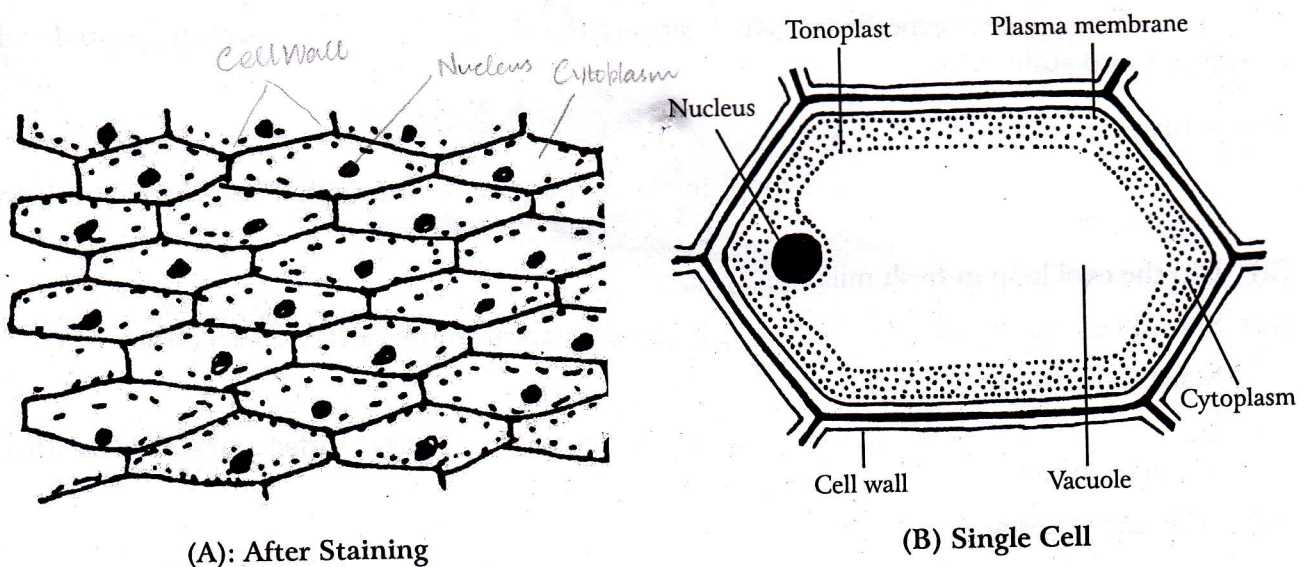


Fig. 5: Onion Cells

Characters:

- (i) The cells are rectangular in shape, arranged without spaces.
- (ii) Each cell is covered by a thick **cell wall** and a cell membrane.
- (iii) In the cell cytoplasm is present, which is granular.
- (iv) In the cell rounded nucleus is present.