

ETHYLENE

- ⇒ Ethylene promotes fruit ripening.
- ⇒ Ethylene occurs in atmosphere as gas.
- ⇒ Also occurs in smoke.
- ⇒ Discovered by Deny (1924).

Physiological growth in Ethylene →

- (i) Inhibition of growth → Ethylene like abscisic acid also inhibit the growth of plant & buds.
- (ii) Fruit ripening →
- (iii) Separation of bud growth → In presence of ethylene buds fails to growth.
- (iv) Root initiation → It promote formation of lateral root in stem like auxins.
- (v) Senescence → Gradually losing the str. & function of an organ & body.
 - ⇒ Cell vacuoles work as lysosome.
 - ⇒ Lysosome secrete the digestive enzymes.
 - ⇒ Digest the cellular contents & cell organelles.
 - ⇒ Proteins breaks into amino acids with the help of proteases.
 - ⇒ Fats changes to glycolic acids by lipases.
 - ⇒ DNA breaks by the activity of DNA ase.
 - ⇒ RNA " " " " " RNA ase.
 - ⇒ Ethylene promote the cell Senescence.
- (vi) flowering → It also promotes flower formation in varies plants like apple, cucumber, pineapple & other fence, due to increase the yeild of fruits trees.

