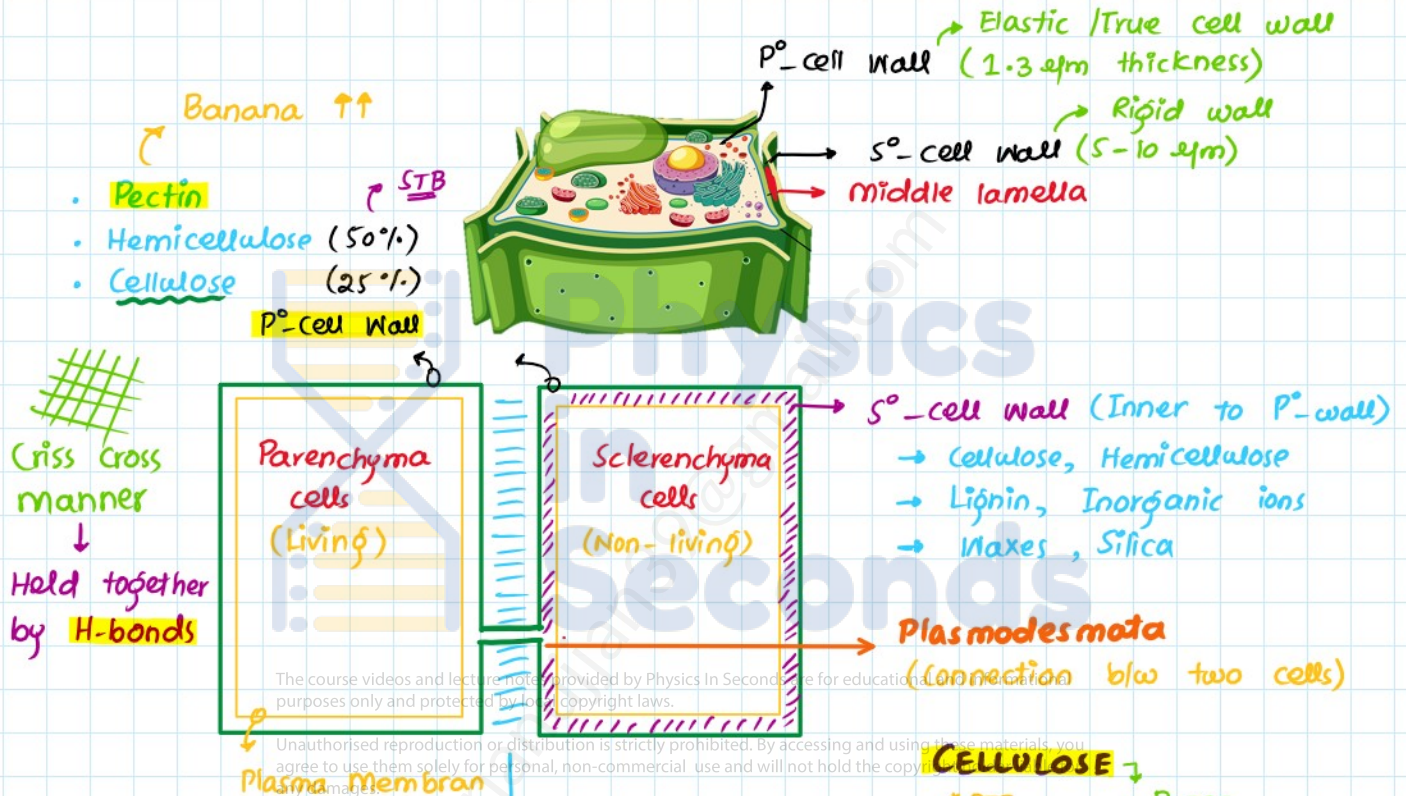


12.2 Cell Wall

- CELL WALL**
- Outermost layer in
 - Plant cell → Cellulose
 - Algae cell → Cellulose
 - Bacterial cell → Peptidoglycan/murien
 - Fungi cell → Chitin
 - Non-living covering
 - Secreted by protoplasm
 - Cell wall is absent in
 - Animal cell
 - Mycoplasma cell (Bacterias)

PLANT CELL WALL



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Middle lamella

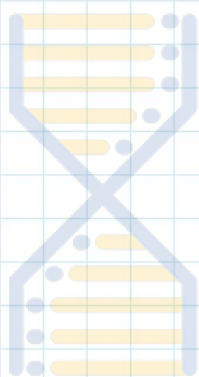
- First to be formed in dividing cell.
- Cementing material / Sticky gel material
- Ca⁺⁺, Mg⁺⁺ salts, Pectates
- Pectic Acid (100 galacturonic acid)
- More Hydrophilic
- Pectin (200 galacturonic acid) methylated (COOCH₃)
- less Hydrophilic

FUNCTIONS

- Mechanical Support
- Definite Shape
- Prevention from Osmotic lysis.
- Apoplastic Pathway
- Imbibition
- Cell wall is permeable. Not act as a barrier



→ Cell wall is permeable. ↪ Not act
as a barrier



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