

CLASS 11

BIOLOGY

REVISION NOTES

Class 11 Biology Chapter 8 Cell – The Unit of Life – Revision Notes

Quick revision notes for Class 11 Biology Chapter 8 (Cell: The Unit of Life). These Class 11 Biology Chapter 8 notes are ideal for quick revision just before exams.

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Cell Theory

Schleiden & Schwann + Virchow: cells are the basic unit of life; all cells from pre-existing cells.

Prokaryotic vs Eukaryotic

Prokaryotic: no membrane-bound nucleus/organelles, 70S ribosomes.

Eukaryotic: membrane-bound nucleus/organelles, 80S ribosomes (70S in mitochondria/chloroplast).

Key Organelles

Nucleus (genetic control), ER (rough/smooth), Golgi (packaging), Mitochondria (ATP), Chloroplast (photosynthesis), Lysosome (digestion), Vacuole (storage/turgor).

Membrane and Wall

Plasma membrane: fluid mosaic model (Singer & Nicolson).

Cell wall: cellulose (plants), chitin (fungi).

One-Line Summary

The cell is the fundamental structural and functional unit of life, with prokaryotic cells lacking and eukaryotic cells possessing a true nucleus and membrane-bound organelles that perform specialized functions.

Class 11 Biology Chapter 8 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Biology Chapter 8 Solutions](#) and [Class 11 Biology Chapter 8 Extra Questions](#).

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