

WATER!!!

The principal **fluid medium** of the cell is water, Which is present in most cells, except for fat Cells, in a concentration of 70 to 85 per cent. Many cellular chemicals are **dissolved in the Water**. Others are suspended in the water as Solid particulates.

Ions!!!

- The most important ions in the cell are:
 - Potassium,
 - Magnesium,
 - Phosphate,
 - Sulfate,
 - Bicarbonate,
 - And smaller quantities of sodium, chloride, and Calcium.

ORGANIC COMPOUNDS

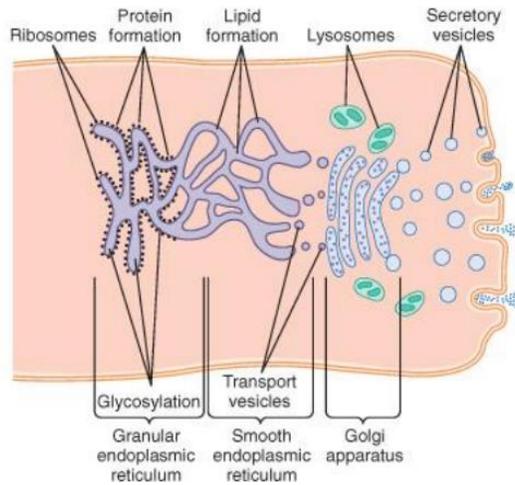
– BUILD UP THE CELL

- PROTEINS
- LIPIDS
- CARBOHYDRATES
- NUCLEIC ACIDS (DNA AND RNA)

Proteins

- After water, the most abundant substances in Most cells are proteins, which normally Constitute 10 to 20 per cent of the cell mass.
- These can be divided into two types:
 - Structural proteins
 - Functional proteins.

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Mitochondria

- Mitochondria are present in all areas of each Cell's cytoplasm
- Their total number per cell varies from less than A hundred up to several thousand, depending on The amount of energy required by the cell.
- Mitochondria are responsible for the major share Of its energy metabolism.

