

Tender Heart High School, Chandigarh 1
Class - VI Subject: Biology
Teacher: Nimrita Lesson - 3 Cell - The Structure and Functions

Good Morning Children!
This lesson is of class - VI for the subject of Biology, Chapter - 3, Cell - The Structure and Functions of your textbook 'Concise Biology' by Selina Publishers. It is being submitted to you on. 20th May '2024

A cell can be defined as the structural and functional unit of all living things.

Discovery of cell:-

- **First Discovery:-** Antonie Van Leeuwenhoek (1632-1723) developed a simple microscope and observed the cells.
- **First to coin the term "cell":-** In 1665, Robert Hooke observed dead cork and coined the term "cell".
- **Cytology:-** The branch of science that deals with the study of cells.
- **Protoplasm:-** It is the living substance of the cell. It is made up of cytoplasm and nucleus.

Cells - Their numbers, shapes and sizes.

- **Unicellular organisms:** The body of many organisms is made of single cell. eg: Bacteria, Yeast
- **Multicellular organisms:** The body of organisms is made up of many cells.

Cell Shape:

- **Spherical:** RBC are spherical in shape.
- **Oval:** Chlamydomonas is oval in shape.
- **Cylindrical:** Spirogyra is cylindrical in shape.
- **Amoeboid:** Amoeba is irregular in shape.
- **Cubical:** Leaf is cubical in shape.
- **Slipper shaped:** Paramecium is "slipper shaped animalcule".
- **Spindle shaped:** Smooth muscles are spindle shaped.

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Cell size:

- 1) The largest cells are the ostrich eggs.
- 2) The longest cells are the nerve cells.
- 3) The smallest cell is of bacteria.

Cell theory:

Schleiden, Schwann and Virchow postulated the cell theory.

- Every living organism is made up of cells.
- The cell is the structural and functional unit of all organisms.
- All cells arise from the pre-existing cells.

I am ending today's topic.
Thank you!