

Chapter 1: The fundamental unit of life.

- 1) In 1665, Robert Hooke first discovered and named the cells.
- 2) Cell is the structural and functional unit of all living organisms.
- 3) Organisms may be unicellular or multicellular. A single cell constitutes the unicellular organism whereas many cells coordinately function in case of multicellular organism.
- 4) The size, shape and volume of the cell are related to the specific function that they perform.
- 5) A cell generally shows plasma membrane, nucleus and cytoplasm
- 6) Plasma membrane is a thin, selectively permeable membrane, covering the cell and is made up of lipids and proteins.
- 7) Functions of plasma membrane :
 - i) It separates the contents of a cell from its outside environment.
 - ii) It regulates the flow of substances to and from the cell through diffusion, facilitated diffusion, active transport and endocytosis.
- 8) Osmosis is diffusion of water through a selectively permeable membrane.
- 9) A cell placed in different solutions:
 - i. hypotonic solution : A cell placed in it will gain water.
 - ii. hypertonic solution: A cell placed in it will lose water: Also known as plasmolysis.
 - iii. isotonic solution: A cell placed in it will neither gain nor lose water

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