

CELL- THE FUNDAMENTAL UNIT OF LIFE

1. Why is cell called the functional and structural unit of life?
2. What is cell theory? Who proposed it?
3. Discuss the size of cells and how it makes them more efficient.
4. Name all parts of a cell.
5. Are all cells of the same shape? Give reasons and examples to support your answer.
6. Discuss the importance and structure of-
 - a. Cytoplasm
 - b. Endoplasmic reticulum
 - c. Plastids
7. *Organelle 'X' is present in animal cell, but not found in plant cells. Organelle 'Y' is present in plant cell, but not found in animal cells.*
 - a. Identify X and Y.
 - b. Give their function.
8. Why is the mitochondrial inner membrane deeply folded? What are these folds called?
9. Differentiate between prokaryotic and eukaryotic cells.
10. Name the cell part which is-
 - a. Composed of cellulose.
 - b. Formed of an irregular network of tubular double membranes.
 - c. A clear space with water or other substances in solution.