

## short answers questions:

3. Briefly describe the three essential parts of a cell.

A- The essential basic parts of a cell are:

- (i) cell membrane
- (ii) cytoplasm
- (iii) Nucleus

(i) cell membrane: Each cell is bound by a thin membrane. It allows only or plasma membrane. It always only selective substance to pass through it. Hence, it is called a selectively permeable membrane. It is elastic in nature and enables the cell to stretch to some extent. The cell membrane is a very thin layer of protein and fat. It is the most important part of the cell as it controls the entry and exit.



of substances inside and outside the cell.

(ii) cytoplasm: The jelly-like substance present in the cell is called as cytoplasm. It constitutes of about 70% of water which gives its fluidity. It consists of various organelles.

(iii) Nucleus: The nucleus is the main organelle of the cell which regulates all the activities of the cell. It consists of the genetic information called DNA.

## Homework



### SAG

1. Name the scientist who invented the first microscope.

A- Antony van Leeuwenhoek invented the first microscope.

2. Who coined the term "cell"?

A- The term "cell" was coined by Robert Hooke.

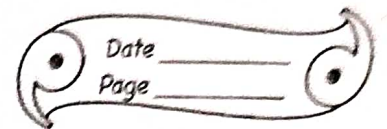
### LAQ

2. Name the scientist who coined the term "cell". How many lenses did he use in his microscope? What did he observe under his microscope?

A- The name of the scientist is Robert Hooke, who coined the term "cell".

- He uses ~~to~~ two lenses in his microscope.
- He examined a very thin slice of a dead cork and observed a cluster





of box-like cubicles piled up together.  
He was the first to call them cells.