

# CELL

classmate

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## SAQ

1. Name the Scientist who invented the first microscope.

Ans- Antony Van Leeuwenhoek invented the first microscope.

2. Who coined the term 'cell'?

Ans- 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?

Ans- Robert Hooke coined the term cell. He used two lenses in his microscope. He examined a very thin slice of a dead cork (the bark of the trees) and ~~obs~~ observed a cluster of box like cubicles piled up together. This reminded him of 'cells' of monks living in a monastery. So, he was the first to call them 'cells'.

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

Ans- The parts are :-

① Cell membrane :- It is a very thin, delicate and flexible membrane which surrounds each cell. It is also called Plasma membrane. It consists of fine pores which allows only certain molecules to pass through it and prohibit the others and therefore, due to its functions, also called Selectively permeable membrane.

② Cytoplasm :- This is the living portion of the cell which is a semi-liquid, translucent and colourless liquid. It is the portion of the cell where major functions of the cell are carried out through various finer parts of the cell. The finer structures which are contained in this are called the cell organelles.

③ Nucleus :- The small spherical dark coloured body usually located in the centre of the cell. It is the most important part of the cell which regulates and co-ordinates various life processes. Its major role is during cell division. It contains hereditary factors called the genes.