

# Science

([www.tiwariacademy.net](http://www.tiwariacademy.net))

(Chapter 5)(The Fundamental Unit of Life)(Intext Questions)

Class - 9

 Page 65

## Question 1:

Can you name the two organelles we have studied that contain their own genetic material?

## Answer 1:

Mitochondria and plastids are the two organelles that contain their own genetic material. Both these organelles have their own DNA and ribosomes.

## Question 2:

If the organisation of a cell is destroyed due to some physical or chemical influence, what will happen?

## Answer 2:

Cell is the smallest unit of life, which is capable of all living functions. If the organisation of a cell is destroyed due to some physical or chemical influence, then the ability of the cell to perform all living functions such as respiration, nutrition, excretion, etc. would be affected.

## Question 3:

Why are lysosomes known as suicide bags?

## Answer 3:

Lysosomes are membrane-bound vesicular structures that contain powerful digestive enzymes. These enzymes are capable of breaking down any foreign food particle or microbes entering the cell. Sometimes, lysosomes can cause self-destruction of a cell by releasing these digestive enzymes within the cells. Hence, they are also known as 'suicidal bags'.

## Question 4:

Where are proteins synthesized inside the cell?

## Answer 4:

Ribosomes are the site for protein synthesis. Ribosomes are very small structures found either in a free state, suspended in the cytoplasm, or attached to the surface of the endoplasmic reticulum. They are composed of ribonucleic acids and proteins.

[www.tiwariacademy.com](http://www.tiwariacademy.com)

A Free web support in education