

Science

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

Class - 9

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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.

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