

Science

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(Chapter – 5) (The Fundamental Unit of Life) (Exercises)

(Class – IX)

Question 1:

Make a comparison to write down ways in which plant cells are different from animal cells.

Answer 1:

The cells of animals and plants have the following differences:

S. No.	Animal Cell	Plant Cell
1.	Animal cells are generally small in size.	Plant cells are larger than animal cells.
2.	Cell wall is absent.	The plasma membrane of plant cells is surrounded by a rigid cell wall of <i>cellulose</i> .
3.	Except the protozoan <i>Euglena</i> , no animal cell possesses plastids.	Plastids are present.
4.	Vacuoles in animal cells are many, small and temporary.	Most mature plant cells have a permanent and large central sap vacuole.
5.	Animal cells have a single highly complex and prominent Golgi apparatus.	Plant cells have many simpler units of Golgi apparatus, called dictyosomes.
6.	Animal cells have centrosome and centrioles.	Plant cells lack centrosome and centrioles.

Question 2:

How is a prokaryotic cell different from a eukaryotic cell?

Answer 2:

Difference between prokaryotic cell and eukaryotic cell:

Prokaryotic Cell	Eukaryotic Cell
1. Cell size is generally small (1 - 10 μm).	1. Cell is generally large (5 - 100 μm).
2. Nuclear region is called nucleoid and is not surrounded by a nuclear membrane.	2. Nuclear material is surrounded by a nuclear membrane.
3. Only a single chromosome is present.	3. More than one chromosome is present.
4. Nucleolus is absent.	4. Nucleolus is present.
5. Membrane bound cell organelles are absent.	5. Membrane bound cell organelles.
6. Cell division by fission or budding (no mitosis).	6. Cell division mitotic or meiotic.

Question 3:

What would happen if the plasma membrane ruptures or breaks down?

Answer 3:

Plasma membrane is a selectively permeable membrane of the cell that maintains its homeostasis, i.e., constant internal composition of the cell. If it ruptures or breaks down the constant internal chemical composition of the cell will be lost and it will not be able to perform its basic functions. Such a cell with ruptured plasma membrane is killed.

Question 4:

What would happen to the life of a cell if there is no Golgi apparatus?

Answer 4:

The materials synthesized in the ER are stored, sorted, modified, packaged and dispatched to various targets inside and outside the cell through the Golgi apparatus packs products in vesicles, the secretory vesicles. In some cases complex sugars e.g. cellulose, may be made from simple sugars in Golgi apparatus. The Golgi apparatus is also involved in the formation of the cells which will not be possible if Golgi apparatus is not there.

Life Science Chapter 1test

Puja Mehta



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