

CELL - A BASIC UNIT OF LIFE

WORKSHEET - 2

Class 9

1. What is the importance of ribosomes?
2. What are three features that are found in almost every cell?
3. Why is cell membrane called selectively permeable membrane?
4. When does a cell gain water by osmosis?
5. What is a hypertonic solution?
6. What is the process of exchange of gases in the life of a cell called?
7. What are the constituents of plasma membrane?
8. How do amoeba acquires its foods and water?
9. What is the material of which the cell wall in plants is composed?
10. What is the function of leucoplasts?

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SOLUTION

1. Ans. Ribosomes are the sites of protein formation.
2. Ans. Plasma membrane, nucleus and cytoplasm.
3. Ans. The plasma membrane allows entry and exit (exchange) of some materials in and out of the cell but prevents movement of some other materials. So, it is called a selectively permeable membrane.
4. Ans. If the medium surrounding the cell has a higher concentration of water than the cell, the cell gains water by osmosis?
5. Ans. If the medium has lower concentration of water than the cell, the cell will lose water through osmosis and such a concentrated solution is called a hypertonic solution.
6. Ans. Diffusion.
7. Ans. The plasma membrane is made up of organic molecules called lipids and proteins.
8. Ans. Amoeba acquires its food and water through cell membrane from its external environment. This process is called endocytosis.
9. Ans. The cell wall in plants is mainly composed of cellulose.
10. Ans. Leucoplasts are organelles in which materials such as starch, protein granules and oils are stored.

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