

## CELL - A BASIC UNIT OF LIFE

### WORKSHEET - 6

Class 9

1. Which organelle is called 'digestive bag' and why?
2. How does cell to cell movement of water takes place in plants?
3. What is protoplasm? Who gave the term protoplasm?
4. Explain "A cell is a basic unit of an organism".
5. Define unicellular and multicellular organisms. Give examples.
6. What is nucleoid? How is it different from the nucleus of eukaryotic cell?
7. What is the role of ribosomes and golgi body?
8. Write an activity showing osmosis

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## SOLUTION

1. Lysosomes are called digestive bags. They contain digestive enzymes which break down the organic material present in the cell.
2. Cell to cell movement of water inside the plant takes place through osmosis. Water moves from the cell having high concentration to the cell having low concentration.
3. The living material present inside the cell is called protoplasm. 'Purkinje' proposed the term protoplasm.
4. A cell is able to perform all the essential function of life – Respiration. Reproduction, excretion, etc. hence, cell is called the basic unit of an organism.
5. Unicellular organisms – Organism which are made up of single cell are called unicellular organisms for ex – Amoeba, Bacteria  
Multicellular organisms – Organisms which are made up of many cells are called multicellular organisms. For ex – Plants, Animals, Human
6. In prokaryotic cell, genetic material is not surrounded by membrane. This undefined region where genetic material is present, is known as nucleoid In eukaryotic cell, genetic material is surrounded by nuclear membrane
7. Ribosomes synthesize proteins. Golgi body helps in storage, packaging and dispatch of various substance inside and outside the cell
8. Activity showing osmosis –
  1. Take raisins and soak into plain water
  2. Keep it for sometime
  3. Raisins swell up due to endo – osmosis.

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