

Name: _____ Date: _____

Cell Structure and Functions

Q1. Why plant cells need cell walls?

Ans. _____

Q2. What are the functions of the cell membrane?

Ans. _____

Q3. State the difference between eukaryotes and prokaryotes.

Ans.	Eukaryotes	Prokaryotes

Cell Structure and Functions

Q1. Why plant cells need cell walls?

Ans. Cell membrane gives shape to the cell. In addition to the cell membrane, there is an outer thick layer in cells of plants called cell wall. This additional layer surrounding the cell membrane is required by the plants for protection. Plant cells need protection against variations in temperature, high wind speed, atmospheric moisture, etc. They are exposed to these variations because they cannot move.

Q2. What are the functions of the cell membrane?

Ans. Functions of the cell membrane

- i. The cytoplasm and nucleus are enclosed within the cell membrane, also called the plasma membrane.
- ii. The membrane separates cells from one another and also the cell from the surrounding medium.
- iii. The plasma membrane is porous and allows the movement of substances or materials both inward and outward.

Q3. State the difference between eukaryotes and prokaryotes.

Eukaryotes	Prokaryotes
1. The cells, like onion cells and cheek cells having well organised nucleus with a nuclear membrane are designated as eukaryotic cells. All organisms other than bacteria and blue green algae are called eukaryotes.	1. The cells having nuclear material without nuclear membrane are termed prokaryotic cells. The organisms with these kinds of cells are called prokaryotes.
2. Examples are plant and animal cells.	2. Examples are bacteria and blue green algae.