

Smart Edu Hub / Smart Exam Resources

9700 / CAIE A level Biology / Paper-1/ Multiple Choice
Questions

1.2.16-Cell-wall-Set-1-qp

Total Questions: 3

Questions

Question 1:

An animal cell and a plant cell are placed in distilled water. The animal cell swells and bursts, while the plant cell swells but does **not** burst.

What accounts for this difference?

- A Animal cells have no cell wall.
- B Animal cells have no vacuole.
- C Plant cell surface membranes are partially permeable.
- D Plant cell walls are freely permeable.

Question 2:

The removal of a plant cell wall by enzyme digestion leaves an intact membrane-bound structure called a protoplast.

Which statement explains why protoplasts are easily damaged?

- A Mitochondria stop producing ATP to maintain membrane integrity.
- B Net movement of water is no longer limited by turgor.
- C Secretory vesicles are unable to fuse with the cell surface membrane.
- D The shape of the cell structures is changed by the loss of cell shape.

Question 3:

Many single-celled animals, living in fresh water, possess vacuoles which contract regularly, expelling excess water.

Why do the cells of plants living in fresh water **not** require such vacuoles?

- A Plant cells have a higher concentration of dissolved solutes than animal cells.
- B Plant cell walls are impermeable to water.
- C Plant cell walls limit cell size.
- D Water movement into plants is controlled by their roots.