

#### BIOLOGY VCE UNITS 1&2 DIAGNOSTIC TOPIC TESTS

## CELL SIZE, STRUCTURE AND FUNCTION, AND CROSSING THE PLASMA MEMBRANE

#### SUGGESTED SOLUTIONS AND MARKING SCHEME

#### SECTION A: MULTIPLE-CHOICE QUESTIONS

#### Question 1 C

Organelles are parts of cells which have specific functions. Organisms can be single-celled or multicellular. Prokaryotes are the simplest form of life.

#### Question 2 B

All cell types have ribosomes as the site of protein synthesis. They are not bounded by membranes. In plant cells, photosynthesis occurs in chloroplasts.

#### Question 3

V is the nucleus, also present in animal cells. W is the cell wall, X is most likely chloroplasts and Z is a (sap) large, fluid-filled vacuole.

#### Question 4 B

As the cell is magnified × 400, ribosomes would not be visible. As it is a plant cell, the outer barrier would therefore be a cell wall. The cell membrane, whilst present, would not be visible unless the cell is plasmolysed (which it is not, as the sap vacuole is clearly visible).

#### Question 5 D

Shape T has been compressed, which greatly increases the surface area.

#### Question 6 A

As shape S has the smallest surface area: volume ratio, it would be the most efficient at conserving heat. T would gain the most nutrients and have the largest surface area: volume ratio. It would be most suitable for a water lily leaf.

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