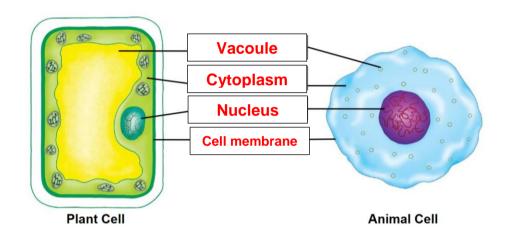
## Chapter 6 Model of Cells – The Basic Unit of Life AfL Quiz 1 Date:

By the end of this quiz, I should be able to:

- Describe the structure and functions of the different parts of a typical cell, including the nucleus which contains genetic material that determines heredity.
- Show an understanding that typical plant and animals cells are models used to represent their various forms.
- 1 All organisms are made of cells, including plants and animals.
  - (a) (i) Identify the organelles present in **both** plant and animal cells in the cell models shown.



(ii) Describe the structure and function of the cell membrane.

The cell membrane is a thin and partially permeable membrane that controls substances entering and leaving the cell.

(b) (i) Name an organelle present in **both** plant and animal cells that controls all cell activity.

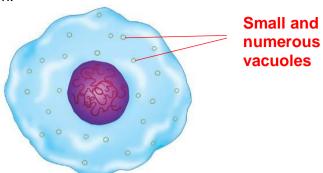
Nucleus.

(ii) Describe the other functions of the organelle named in (b)(i)

It is responsible for cell reproduction / cell division.

Reject: Contains chromosomes which carry genetic information (this is a structure not function)

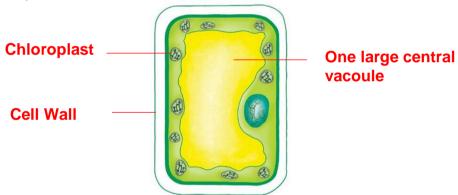
2 (a) A typical animal cell is shown.



- (i) On the diagram, label the structure only found in an animal cell.
- (ii) Describe the structure and function of the structure named in (a)(i).

Structure	Function
Fluid-filled space found in the cytoplasm.	Stores water and other nutrients.

**(b)** A typical plant cell is shown.



- (i) On the diagram, label the structures only found in a plant cell.
- (ii) Describe the structure and function of the cell structure responsible for photosynthesis.

Structure	Function
Chloroplast contains green pigment, chlorophyll	Absorbs sunlight for photosynthesis

**3** The following diagrams show cells under an electron microscope.

Identify if each cell is a plant or animal cell and explain why.

Plant or animal cell? Animal	Plant or animal cell? Plant
Reason: Absence of cell wall / chloroplast / one large central vacuole	Reason: Presence of cell wall / one large central vacuole
Plant or animal cell? Plant	Plant or animal cell? Animal
Reason: Presence of cell wall / chloroplast / one large central vacuole.	Reason: Absence of call wall / one large central vacuole / choroplast

Self-Evaluation: I am able to:	Yes	No
describe the structure and functions of the different parts of a typical cell,		
including the nucleus which contains genetic material that determines heredity show an understanding that typical plant and animals cells are models used		
to represent their various forms		

Questions I still have: