

## Chapter 6 Model of Cells – The Basic Unit of Life

### AfL Quiz 1

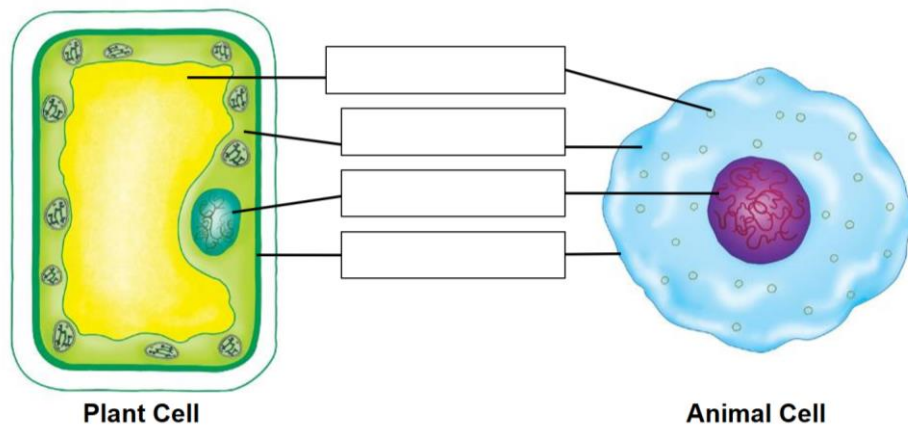
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By the end of this quiz, I should be able to:

- 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.

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

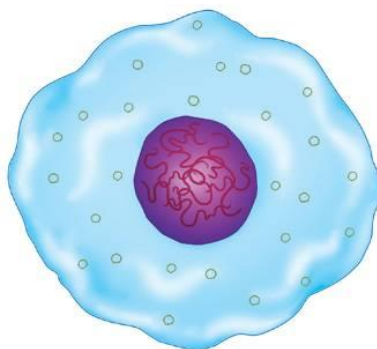
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- (ii) Describe the other functions of the organelle named in (b)(i)

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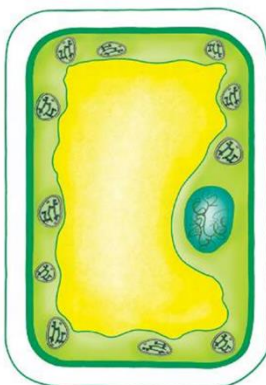
2 (a) A typical animal cell is shown.



- (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 |
|-----------|----------|
|           |          |

(b) A typical plant cell is shown.

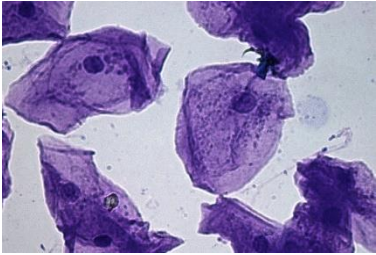
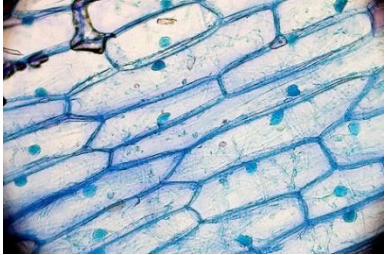

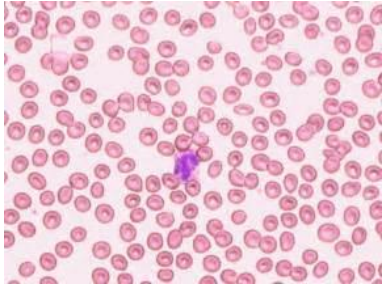


- (i) On the diagram, label the structures only found in a plant cell.
- (ii) Describe the structure and function of the cell structure responsible for photosynthesis.

| Structure | Function |
|-----------|----------|
|           |          |

3 The following diagrams show cells under an electron microscope.

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

|  |   |
|--|---|
|   |   |
| <p><b>Plant or animal cell?</b></p> <p><b>Reason:</b></p>                          | <p><b>Plant or animal cell?</b></p> <p><b>Reason:</b></p>                           |
|  |  |
| <p><b>Plant or animal cell?</b></p> <p><b>Reason:</b></p>                          | <p><b>Plant or animal cell?</b></p> <p><b>Reason:</b></p>                           |

| <b>Self-Evaluation:</b> I am able to:   | <b>Yes</b> | <b>No</b> |
|---|------------|-----------|
| 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:

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