


The Function of Cell Structures

Use with textbook page 29.

1. Cell structures have a specific role or function that supports the life processes of the cell. In your own words, describe the role of each cell structure and indicate which cell it is found in by circling the appropriate word.

<p>Cell Membrane Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>	<p>Cell Wall Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>	<p>Nucleus Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>
<p>Chloroplast Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>		<p>Mitochondria Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>
<p>Vesicles Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>	<p>Vacuoles Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>	<p>Cytoplasm Function:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Found in which cells? Plant Animal Both</p>

2. List one cellular process that the cell would not be able to carry out if the following cell structures were unable to carry out their function:

- a) cell membrane _____
- b) nucleus _____
- c) mitochondria _____
- d) chloroplast _____

A Plant Cell Is Like a Shopping Mall

Use with textbook page 29.

A simile is a figure of speech that compares two things that are not alike by using the word "as" or "like." For example, she moved as quiet as a mouse; the water surface was smooth like glass.

1. Compare a cell to a shopping mall by filling in the blanks in the pictures below.

A Plant Cell is Like a Shopping Mall

a) The mall entrance door is like the _____
because it controls who enters and leaves the mall.

b) The shopping bags are like the _____
because they hold and transport purchases from store to store.

c) The shops and boutiques like the _____
because they store the products the shoppers want to purchase.

d) The customer service centre is like the _____
because it controls all the mall's activities and operations.

e) The generator is like the _____
because it produces electrical energy for the mall.

f) The mall corridor is like the _____
because this is where shoppers are found moving around from store to store.

g) The wall of the mall is like the _____
because it provides structural support for the building.

h) The food court is like the _____
because it produces food for the mall.

2. Compare a cell to a movie theatre. Complete the following table.

Cell Structure	Is Like	Because...
the cell membrane	the ticket booth	it controls who gets to see the movie by allowing only people with purchased tickets to enter the theatre