Living Things and The Cell						
1) Matching: Put the correct number on the space provided beside the proper term. 10 marks						
A. Cell	1. Allowing materials to pass through.					
B. Diffusion	<ol><li>A group of different tissues that work together to perform a specific function.</li></ol>					
C. Organism	3. A structure within a cell that has a specific function.					
	<ol> <li>The diffusion of solvent, usually water, through a selectively permeable membrane.</li> </ol>					
D. Organelle	5. The movement of particles in liquids and gasses from an area of higher concentration to an area of lower concentration.					
E. Osmosis	6. A group of cells having the same structure and function.					
F. Tissue	7. Allowing no materials to pass through.					
G. Impermeable	8. The smallest unit that perform the function of life.					
	<ol><li>A collection of parts that work together in such a way that a change in one part can result in a change in another.</li></ol>					
H. Organ	10. An individual form of life.					
I. Permeable						
J. System						

**Science 8 – Cells and Systems** 

Name: \_\_\_\_\_

The two organelles that can only be found in a plant cells are:

a. Vacuoles and Cell Wall

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- b. Cytoplasm and Chloroplasts
- c. Chloroplasts and Cell Wall
- d. Mitochondria and Nucleus

Class:	Name:					
a. b. c.	he three things that effects the rate of osmosis and diffusion are: a. Water, Sunlight, and Energy b. Concentration, Temperature, and Pressure c. Temperature, Pressure, and Sunlight d. Energy, Reproduction, and Produce Wastes					
<b>3)</b> Name the characteristics of living things that are shown in each of these examples: 6 marks						
a.	a. A tree soaks up nutrients from the soil.					
b.	b. A bird hatches from it's egg.					
C.	c. Throwing compost on your garden and a tomato plant grows.					
d.	d. Owl pellets laying under a tree.					
e.	. A dog's coat growing thicker in the winter.					
f.	. A cat shedding it's fur.					
-	me the five levels of organization in multicellular organism in order and an example of each. 10 marks					
<b>5) Short Answer:</b> Is a rock a living thing? Give <b>3</b> reasons for your thinking. Use complete sentences. <i>3 marks</i>						

**6) Short Answer:** Explain how the role of unicellular organisms are different than multicellular organisms. Use complete sentences. *2 marks*.

Class: Name:				
<b>7) Fill in the Blank:</b> Use the word box to place the name of each organelle with it's correct definition. Then label each organelle in it's proper place on the below diagram. <i>14 marks</i>				
: Jellylike material in which other parts of the cell float.				
: Controls most of the cell's activities.				
: Releases the energy stored in food.				
: Captures light energy and uses if to make stored energy.				
: Controls what passes in and out of the cell.				
:Stores food and wastes that the cell cannot use right away.				
:Tough material that surrounds the cell and provides support.				

Cell Membrane	Mitochondria	Chloroplasts	Photosynthesis
Organelle	Ribosome	Nucleus	Cytoplasm
Cell Wall	Vacuoles	Osmosis	Golgi

