<u>Cells, Tissues, Organs and Systems</u> Assignment #3- Plant/Animal Cells and History of Microscopes

NAME:	Date Due:
Point fo	rm is acceptable:
1.	Label the black line master 1.3.1 (labelling cells) found on the back page.
2.	Where in a cell is genetic information found?
3.	Explain what is different about vacuoles in animal cells as compared to plant cells?
4.	What chemical is found in plant cells that give plants their green colour in appearance?
5.	What does this chemical do?
6.	What function do cilia or flagellum have?
7.	What purpose does cytoplasm serve?
8.	Name TWO structures that are found in plants but not in animal cells.

9. A biologist finds a cell with what appears to be two nuclei (plural of nucleus). What conclusion might you make about why this cell appears to have two nuclei?

10.	Explain what might happen to a cell if a plastic coat that prevented molecules from entering or leaving the cell replaced the cell membrane.
11.	Who invented the earliest known microscope?
12.	What is an advantage that a compound light microscope has over a single lens microscope?
13.	What is an advantage that a scanning electron microscope has over a transmission electron microscope?
14.	What is an advantage that a transmission electron microscope has over a scanning electron microscope?

	15. Describ	microscope.						
		16. Which microscope would you suggest to use to view a. The detailed structure of a nucleus						
	a. b.		li ucture o	i a flucieus				
		WIII:						
	C.	A single cell _						
	d.	WHY?						
0	Not completed on due date Answers lacked effort and/or knowledge Shows little understanding of cell structures and microscopes Many or all questions must be redone		☐ Completed with accuracy ☐ More explanation needed for some answers ☐ Shows good understanding of cell structures and history of microscopes ☐ More or a better explanation is needed for		Completed with detail Excellent explanations given Shows excellent understanding of cell structures and history of microscopes Little or no further explanation is needed			
	#'s Parent signature required 50% with a parent signatu	or receive 0.	questions #'s	<u> </u>	Fine tune questions #'s			
X								