## <u>Cells, Tissues, Organs and Systems</u> Assignment #5- Virtual Cell Worksheet

NAME:		ate Due:	
		ent #5 Virtual Cell Tour" under in the blanks and draw a p	
0.5 for	each blank=	/21 marks	
1. 2. Lysosomes are called		sacks. They are produced	Lysosomes
by the	body. They cons	ist of a single membrane	
surrounding powerful	enzymes. Those lumpy brown		
structures are digestive		They help protect you	
by	the bacteria that yo	our white blood cells	
engulf.	act as a clean up c	rew for the cell. Zoom in	
and draw what you see.			
2. 3. Chloroplasts are the site of		They	Chloroplasts
consists of a	membrane. The	e stacks of disk like	·
structures are called the	The r	nembranes connecting	
them are the		_	
picture.			
3. 4. Mitochondrion is the		of the cell. It is the site of	Mitochondrion
I	t has a	membrane. The	
inner membrane is where most	resp	iration occurs. The inner	
membranes is with	n a very large surface ar	ea. These ruffles are	
called Mitochon	dria have their own	and manufacture	
some of their own	Draw a picture o	of the mitochondrion with	
its membrane cut.			
4. 5. Endoplasmic Reticulum (ER) is a series of double membranes that			Endoplasmic Reticulum
back and forth between the cell membrane and the			(ER)
but	you cannot see them be	ecause they are very	

The rough E.R. has	
attached to it. This gives it its texture. These	
ribosomes manufacture for the cell. The ribosomes	
are the which manufacture proteins. Draw the	
rough ER with a ribosome.	
5. 7. Cell Membrane performs a number of critical functions for the	Cell Membrane
It regulates all that	
and leaves the cell; in multicellular organisms it	
allows recognition. Draw and shade the cell	
membrane.	
6. 8. Nucleus is called the of the cell. It is a large	Nucleolus
spot in eukaryotic cells. It	
all cell activity. The nuclear membrane has many	
The thick ropy strands are the	
The large solid spot is the	
The nucleolus is a spot of	
chromatin. It manufactures	
in its	
active form. It is a of DNA and histone	
proteins. It stores the information needed for the manufacture of	
Draw a picture of the nucleus and its	
nucleolus.	
7. 9. Golgi Body is responsible for packaging for the	Golgi Body
cell. Once the proteins are produced by the E.R., they pass	
into the like cisternae that are the main part of the Golgi	
body. These proteins are then squeezed off into the little	
which drift off into the cytoplasm. Draw a picture	
of the Golgi Body as it is squeezing off the proteins.	