

SELF- TEST: CELL ORGANELLES

I. Match the following structures to the descriptions given below:

	Structures	Functions
1.	ribosome	produces enzymes to digest bacteria
2.	lysosome	produces proteins
3.	chromosomes	internal support system for cell
4.	centriole	packages proteins into vesicles
5.	nucleus	transport system inside cell
6.	mitochondrion	control center of cell
7.	cytoskeleton	long tail-like structure for cell locomotion
8.	endoplasmic reticulum	“Powerhouse” of the cell (produces ATP)
9.	cytoplasm	site of photosynthesis
10.	Golgi body	stores starch in plant cell
11.	flagellum	produces spindle fibers for mitosis
12.	vacuole	supports all cell organelles
13.	chloroplast	semipermeable to control entry and exit of materials
14.	cell membrane	produces ribosomes
15.	nucleolus	genetic material in nucleus
16.	amyloplast	stores water and ions

II. How does a plant cell differ from an animal cell?

III. Why are plant cells generally firmer than animal cells?

IV. Why do muscle cells contain more mitochondria than fat cells do?

V. Complete the following table:

Cell part	Plant, animal or both	Function
nucleus	both	
	plant	photosynthesis
		stores water and nutrients
endoplasmic reticulum		
		packages protein
mitochondria		