**Chap 6: Organelles**

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**Describe** the functions of the following organelles: (\* are VERY IMPORTANT structures)

* Cytosol \*
* Plasma membrane \*
* Nucleus \*
* Nucleolus
* Ribosome \*
* ER (smooth and rough)
* Golgi apparatus/complex
* Vesicles/vacuoles
* Lysosome
* Mitochondrion \*
* Chloroplast \*
* Cytoskeleton
* Cell wall

**Define** and **Differentiate** between the terms *prokaryotic cell* and *eukaryotic cell*.

**List** and **Explain** at least 3 uses of vacuoles.

**Explain** the *endosymbiotic theory* and how it applies to chloroplasts and mitochondria organelles.

**Explain** the purpose of *motor proteins*.

**List** and **Describe** the three components of the cytoskeleton. (Table 6.1, pg. 113 - 117)

**Describe** the *extra cellular matrix*.

**List** and **Differentiate** between the cell junctions present in plant cells vs. animal cells.