# Cell Biology Unit Study Guide - Answer Key

- A student could tell the difference between onion skin cells and cheek cells because the onion skin cells have a cell wall and chloroplasts
- What is the difference between a prokaryotic and a eukaryotic cell? Prokaryotes have no membrane-bound organelles
- 3. Why does a virus require a host cell? Because they are not able to make proteins on their own
- 4. What type of organisms are prokaryotes? bacteria
- The function of a cell membrane is to (1) control what enters and leaves the cell, (2) support
  the shape of the cell, and (3) contain identification markers for other cells.
- In the final phase of completion, proteins are modified by special enzymes in what organelle?
   Golgi apparatus
- In which organelle would water and dissolved materials be stored? <u>vacuale</u>
- Describe the structure and function of the following organelles: endoplasmic reticulum, ribosomes, Golai apparatus, mitochondrion
  - (a) ER network of interconnected membranes forming sacs and canals; transports proteins,
  - (b) ribosomes ribosomal RNA; site of protein synthesis
  - (c) Golgi apparatus membranous sacs; modify and package proteins
  - (d) mitochondrion membranous sacs; produces ATP
- Osmosis is defined as the movement of <u>water molecules from a high concentration to a low</u> concentration through a selectively permeable membrane.
- The structure and function of membrane proteins are described as globular proteins that create narrow passageways or channels for molecule transport.
- The cellular structure that is involved in producing ATP during aerobic respiration is the mitachandrian.
- 12. The membrane-bound organelles which convert solar energy to chemical energy are? <u>chloroplasts</u>
- 13. What is the function of the nucleus?
  - (a) stores DNA
  - (b) controls most of the cell's processes
  - (c) contains the information needed to make proteins

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