

**Chapter 6 Questions:**

- 1. How is a prokaryotic cell different than a eukaryotic cell?**  
Prokaryotic cells have no nucleus, the DNA is found in an unbound region called the nucleoid, there are no membrane-bound organelles, and the cytoplasm is bound by the plasma membrane. whereas eukaryotic cells contain DNA in a nucleus that is bounded by a membranous nuclear envelope, they are membrane-bound organelles, and they consist of cytoplasm which is the region between the plasma membrane and nucleus.
- 2. Comparing light microscopy and electron microscopy, what is an advantage of electron microscopy? What is an advantage of light microscopy?**  
In a light microscope (LM), visible light is passed through a specimen and then through glass lenses. An advantage of the LM is that the image is magnified because the lenses refract, or bend the light. A specimen can be effectively magnified about 1,000 times in size using an LM. Electron microscopes (EMs) are used to study the sub-cellular structures. Scanning electron microscopes (SEMs) provide images that look 3-D and transmission electron microscopes (TEMs) focus a beam of electrons through a specimen.
- 3. Why would a scientist use the process of cell fractionation?**  
A scientist would use the process of cell fractionation to determine the function of organelles.
- 4. In Chapter 5, you learned the properties of fats and lipids, including phospholipids. The interactions of these phospholipids with water provide a very important service for the cell. What is that purpose?**  
The polar heads of the phospholipid bilayer allow membranes to interact with water and the chemicals that dissolve in water. This is important because cells need to be able to move dissolved chemicals into and out of the cell.
- 5. The nuclear pore allows the movement of molecules through the nuclear membrane. What types of molecules/macromolecules would need to go through these pores?**  
Small polar molecules, ions, and macromolecules travel through the nuclear pore: between the nucleus and the cytoplasm.
- 6. Why might one cell have a larger number of ribosomes than another cell?**  
Cells will have more ribosomes if its more active in protein synthesis.
- 7. List the components of the endomembrane system. What makes the endomembrane system a "system"?**  
Nuclear envelope, endoplasmic reticulum, Golgi apparatus, lysosomes, Vacuoles, and plasma.
- 8. Fill out the table below. For the last column, how do the components in each of those groups work together?**

# Chapter 6 Study Guide Answers

**David Hinde**



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