

Chapter 6 Study Guide

Chapter 6 Questions:

1. How is a prokaryotic cell different than a eukaryotic cell?

A prokaryotic cell is different than a eukaryotic cell because prokaryotic cells do not have membrane-bound organelles, whereas eukaryotic cells do have a membrane-bound organelles.

Eukaryotic cells- nucleus

Prokaryotic cells- no nucleus

2. Comparing light microscopy and electron microscopy, what is an advantage of electron microscopy? What is an advantage of light microscopy?

One advantage of electron microscopy is that this type of microscopy is mainly used to study the internal structure of cells. One advantage of light microscopy is that this type of microscopy is known for its ability to effectively magnify to about 1,000 times the size of the actual specimen. Light microscopy also enhances contrast which enables the cell components to be stained or labeled.

3. Why would a scientist use the process of cell fractionation?

A scientist would use the process of cell fractionation in order to isolate the organelles within a certain cell so that they could then go on to study the organelles individually.

- Cell fractionation separates the major organelles from one another
- Used to determine the functions 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 purpose of these interactions of these phospholipids with water is to form a phospholipid bilayer. This is very important and has the purpose of being the primary structural component of a cell membrane.

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?

The types of molecules/macromolecules that would need to go through these pores are proteins and RNA.

6. Why might one cell have a larger number of ribosomes than another cell?

One cell might have a larger number of ribosomes than another cell because the number of ribosomes is dependent on how active a particular and certain cell is in synthesizing proteins.

7. List the components of the endomembrane system. What makes the endomembrane system a 'system'?

The endomembrane system includes the nuclear envelope, endoplasmic reticulum, Golgi apparatus, lysosomes, vacuoles, and the plasma membrane. These are all the various components that make up the endomembrane system. The endomembrane system can be considered a "system" because all of

Chapter 6 Study Guide 2

Kathleen Armour



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$$\begin{pmatrix} a & a & a & a & a \\ 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 & 3 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 & 1 \end{pmatrix}$$
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