

Chapter 4 Keys to Success

If you can understand the concepts that go along with the following questions, you should be successful on your exam:

Why do cells have to be as small as they are?

What is the maximum magnification of light microscopes?

What domains belong to the prokaryotic group?

Prokaryotic cells are fairly simple. What kinds of structures do they possess? What do these structures do?

In what major way do prokaryotic cells differ from eukaryotic cells?

Where are the organelles of eukaryotic cells thought to have come from? What is the process?

Which organelles are found within the endomembrane system?

What are vesicles?

What does the nucleus do?

What do ribosomes do?

What are the two regions of the ER and what do they do?

What are the jobs of the Golgi?

What do lysosomes do?

What do peroxisomes accomplish?

What are the names of the large storage sacs in a cell? What do they do?

What structures are found within chloroplasts?

What is the role of mitochondria in a cell?

Name the three main proteins of the cytoskeleton. What can the cytoskeleton do?

What task do centrioles perform?

What are flagella made of? What is their function?