

## Chapter 4 Study Guide

1) Who were the scientists who first observed living and nonliving cells?

Hooke - nonliving cells  
Leewenhoek - living cells

2) What research was done that led to the development of cell theory?

Shleiden - plants are made of cells >      **Virchow**  
Shwann - animals are made of cells >      ^    ^    ^

3) The Cell Theory:

- All living things are made of cells
- Cells are the basic units of life
- All cells come from other cells

4) Why is the cell considered the basic unit of life?

Cells are the smallest units structurally and functionally

5) What is the relationship between a cell's shape and function?

A cell's shape determines its function

6) What is the factor that limits cell size?

The surface-to-volume ratio

7) What are the 3 basic parts of a cell?

- cell membrane
- control center (DNA)
- cytoplasm

8) What are the differences between prokaryotic and eukaryotic cells?

Euk - Nucleus/membrane-bound organelles  
Pro - None of the above

# Modern Biology Ch 4study Guide Answers

**SJ Ball**



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