



CELLS AND TISSUES

The basic unit of structure and function in the human body is the cell. Each of a cell's parts, or organelles, as well as the entire cell, is organized to perform a specific function. Cells have the ability to metabolize, grow and reproduce, move, and respond to stimuli. The cells of the body differ in shape, size, and in specific roles in the body. Cells that are similar in structure and function form tissues, which, in turn, construct the various body organs.

Student activities in this chapter include questions relating to the structure and function of the generalized animal cell and to the general arrangement of tissues and their contribution to the activities of the various body organs.

CELLS

Overview

1. Answer the following questions by inserting your responses in the answer blanks.

- | | | |
|---------------------|-----|---|
| <u>Hydrogen</u> | 1. | 1-4. Name the four elements that make up the bulk of living matter. |
| <u>Carbon</u> | 2. | |
| <u>Oxygen</u> | 3. | 5. Name the single most abundant material or substance in living matter. |
| <u>Nitrogen</u> | 4. | 6. Name the trace element most important for making bones hard. |
| <u>Oxygen</u> | 5. | 7. Name the element, found in small amounts in the body, that is needed to make hemoglobin for oxygen transport. |
| <u>Calcium</u> | 6. | |
| <u>Iron</u> | 7. | 8-12. Although there are many specific "jobs" that certain cells are able to do, name five functions common to all cells. |
| <u>Reproduction</u> | 8. | |
| <u>Metabolism</u> | 9. | <u>Growth</u> 11. |
| <u>Excretion</u> | 10. | <u>Responds to Stimuli</u> 12. → |

Anatomy Physiology Cells Tissues Answer Key

Edwin Benzel Steen,Ashley Montagu



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