

Fluid, Electrolyte, and Acid-Base Balance: Introduction to Body Fluids

1. a. Where are fluids absorbed? _____
b. Where are excess fluids and electrolytes lost? _____
2. Name four of the six functions of water.
 - a.
 - b.
 - c.
 - d.
3. a. The amount of water in the body depends on the amount of _____.
b. From the CD, list the person with the highest and lowest percentage of water and give the percentage.
 1. Highest _____ %
 2. Lowest _____ %
4. List the three fluid compartments and the percentage of total body water in each.
 - a. _____ %
 - b. _____ %
 - c. _____ %
5. Give an example of each of the following solutes:
 - a. Ions/electrolytes _____
 - b. Colloids _____
 - c. Nonelectrolytes _____
6. List the major extracellular and intracellular cations and anions
 - a. Extracellular cations: _____ anions: _____
 - b. Intracellular cations: _____ anions: _____
7. Within a fluid compartment, the total number of _____
must be equal to the total number of _____.

8. Name four of the seven functions given for electrolytes:

a.

b.

c.

d.

9. Osmosis: When more solute particles are added to one side of a container with a selectively permeable membrane, which way will the water move?

10. What happens to a patient's red blood cells when the following solutions are given:

a. Hypotonic solution _____

b. Hypertonic solution _____

c. Isotonic solution _____