

- B. a leaf
 - C. a root
 - D. chloroplasts
- 6) A cell that is 25% water is placed in a solution that is 45% water. Which way will the net movement of water go?
- A. Into the cell
 - B. Out of the cell
 - C. Neither way
- 7) A student wants to look at red blood cells. Which instrument would he use?
- A. compound microscope
 - B. telescope
 - C. the naked eye
 - D. magnifying glass
- 8) Which of the following terms refers to the movements of water from an area of higher concentration to an area of lower concentration?
- A. concentration
 - B. osmosis
 - C. active transport
 - D. collision
- 9) This item refers to an investigation in which cells were cut in half. They were cut in a way that one half of each cell contained a nucleus and one half had no nucleus. One hundred fragments from each group were placed in containers with uniform conditions. The table below shows the results.

	Number of Cell Fragments Without Nuclei	Number of Cell Fragments With Nuclei
Number Studied	100	100
Surviving 1 day	80	79
Surviving 2 days	60	74
Surviving 3 days	30	72
Surviving 4 days	3	72

What does this chart tell us about the nucleus of a cell?

- A. Twice as many cells will grow if each is cut in half
 - B. The size of the cell fragment will determine how long it lives
 - C. A nucleus is necessary for the continued life of a cell
 - D. It doesn't matter which part of a cell gets the nucleus, all of the cell fragments will continue to live.
- 10) John is sailing for the day. He drinks all his fresh water and is still thirsty. John decides to drink the salty ocean water. As the day wears on, John gets even thirstier. Why might John still be thirsty?
- A. Because of osmosis the higher than normal salt concentration outside of John's cells caused water to leave the cells, making John thirsty.
 - B. Because the heat of the day has caused John to sweat, making him hot and thirsty
 - C. Because turgor pressure outside of John's cells has caused many of them to burst and lose water, making him thirsty.
 - D. Because the salt water does not taste good and so he quits drinking it.
- 11) Sarah put an egg in a beaker of corn syrup and another egg in a beaker of fresh water. After a day, she found that the one in the fresh water had expanded and the one in the corn syrup had shrunk. Which answer best explains her findings?
- A. The fresh water egg must have come from a better chicken.
 - B. The fresh water egg must have started larger.
 - C. The fresh water in the beaker absorbed water from the egg.
 - D. Fresh water in the beaker went into the egg.
- 12) The epidermis tissue and dermis tissue make up the two main layers of the skin. Skin is an example of which level of organization?
- A. cell
 - B. tissue
 - C. organ
 - D. system
- 13) What does respiration do for cells?
- A. circulates blood