

Chapter 7 (old) / 8 (new) Review

For Questions 1-4, write True if the statement is true. If the statement is false, change the underlined word or words to make the statement true.

- membrane. All cells are surrounded by a cell wall.
lipid bilayer. The flexible nature of a cell membrane results from its channel proteins.
True 3. Selectively permeable membranes allow only certain materials to pass through them.
True 4. Centrioles are found in animal cells.

For Questions 5-11, match the organelle with its description.

Organelle	Description
<u>F</u> 5. Ribosomes	A. Convert energy from sunlight into chemical energy that is stored in food
<u>D</u> 6. Endoplasmic reticulum	B. Stack of membranes that modifies, sorts, and packages proteins and other materials for storage or release
<u>B</u> 7. Golgi apparatus	C. Convert chemical energy stored in food into a form that can be easily used by the cell
<u>G</u> 8. Lysosomes	D. An internal membrane system where lipid components of cell membranes are made
<u>E</u> 9. Vacuoles	E. Saclike structures that store materials
<u>A</u> 10. Chloroplasts	F. Small particles of RNA and protein on which proteins are assembled using instructions from DNA
<u>C</u> 11. Mitochondria	G. Filled with enzymes used to break down carbohydrates into smaller molecules

For Questions 12-15, complete each statement by writing the correct word or words.

12. Osmosis occurs through water channel proteins called aquaporins.
 13. The force created by the net movement of water through a cell membrane is called osmotic pressure.
 14. Red blood cells are able to maintain homeostasis because they are bathed in blood, which is isotonic to the fluid in the cells themselves.
 15. To respond to a chemical signal, a cell must have a receptor to which the signaling molecule can bind.