

Cell Structure and Function ▪ Chapter 3 Pre-Assessment

Write the letter of the correct answer on the line at the left.

- _____ 1. In a microscope, an image is focused by
 - a. the eyepiece lens and the mirror.
 - b. the objective lens and the mirror.
 - c. the eyepiece lens and the objective lens.
 - d. the objective lens and a concave lens.

- _____ 2. An electron microscope uses a beam of electrons instead of
 - a. slides.
 - b. lenses.
 - c. mirrors.
 - d. light.

- _____ 3. Cells break down carbohydrates to get _____ for life processes.
 - a. energy
 - b. food
 - c. oxygen
 - d. carbon dioxide

- _____ 4. Cells in green plants make
 - a. food and carbon dioxide
 - b. water and carbon dioxide
 - c. food and oxygen
 - d. water and carbon dioxide

Cell Structure and Function ▪ Section 3.1 Quiz

Fill in the blank to complete each statement.

1. Cells are the basic _____ in living things.
2. The invention of the _____ made it possible for people to discover cells.
3. In 1663, English scientist _____ used his microscope to study thin slices of cork.
4. Anton van Leeuwenhoek called the moving organisms he saw _____, meaning "little animals".
5. The _____ is an explanation of the relationship between cells and living things.

Cell Structure and Function ▪ Section 3.2 Quiz

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. The cell membrane helps support and protect the cell.
- _____ 2. Most of the cell's energy is produced in the mitochondria.
- _____ 3. Golgi bodies function to produce proteins.
- _____ 4. Chloroplasts are used for storage within the cell.
- _____ 5. The variety of structure in cells reflects the differences in cell function.

Cell Structure and Function ▪ Section 3.3 Quiz

Fill in the blank to complete each statement.

1. Most chemical reactions within cells could not take place without _____.
2. In addition to providing energy for the cell, carbohydrates are important components of _____.
3. Lipids make up most of the _____.
4. Proteins are made up of smaller molecules called _____.
5. Two types of _____ are DNA and RNA.

Cell Structure and Function ▪ Section 3.4 Quiz

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. Osmosis is the main method by which small molecules move across the cell membrane.
- _____ 2. Water moves into a cell by passive transport.
- _____ 3. Water moving out of a cell causes the cell to shrink.
- _____ 4. The movement of dissolved materials through the cell membrane without using cellular energy is called active transport.
- _____ 5. Osmosis is a form of diffusion.