

Cell History and Structure Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- Who was one of the first people to identify and see cork cells?
 - Anton van Leeuwenhoek
 - Robert Hooke
 - Matthias Schleiden
 - Rudolf Virchow
- The work of Schleiden and Schwann can be summarized by saying that
 - all plants are made of cells.
 - all animals are made of cells.
 - plants and animals have specialized cells.
 - all plants and animals are made of cells.
- The cell theory applies to
 - bacteria.
 - plants and animals.
 - multicellular organisms.
 - all of the above
- Prokaryotes lack
 - cytoplasm.
 - a cell membrane.
 - a nucleus.
 - genetic material.
- Eukaryotes usually contain
 - a nucleus.
 - specialized organelles.
 - genetic material.
 - all of the above
- Which of the following organisms are prokaryotes?
 - plants
 - animals
 - bacteria
 - all of the above
- Which of the following is a function of the nucleus?
 - stores DNA
 - controls most of the cell's processes
 - contains the information needed to make proteins
 - all of the above
- Which organelle breaks down food into molecules the cell can use?
 - Golgi apparatus
 - lysosome
 - endoplasmic reticulum
 - mitochondrion
- Which structure makes proteins using coded instructions that come from the nucleus?
 - Golgi apparatus
 - mitochondrion
 - vacuole
 - ribosome
- Which organelle converts the chemical energy stored in food into compounds that are more convenient for the cell to use?
 - chloroplast
 - Golgi apparatus
 - endoplasmic reticulum
 - mitochondrion
- Which organelles help provide cells with energy?
 - mitochondria and chloroplasts
 - rough endoplasmic reticulum
 - smooth endoplasmic reticulum
 - Golgi apparatus and ribosomes
- Which sequence correctly traces the path of a protein in the cell?
 - rough endoplasmic reticulum, Golgi apparatus, released from the cell
 - ribosome, smooth endoplasmic reticulum, chloroplast
 - smooth endoplasmic reticulum, lysosome, Golgi apparatus
 - mitochondria, rough endoplasmic reticulum, cell membrane