

**Cell Structure and Function****Study Guide B****Answer Key****SECTION 1. CELL THEORY**

- first to identify cells and name them
- observed live cells and observed greater detail
- concluded that plants are made of cells
- concluded that animals and, in fact, all living things are made of cells
- proposed that all cells come from other cells
- All organisms are made of cells. All existing cells are produced by other living cells. The cell is the most basic unit of life.
- Answers will vary. Sample answer: Cell theory is one of the great unifying theories of biology. Cell theory helped people understand that life didn't arise from nonliving sources.
- Y diagram:** Eukaryotic cells—surrounded by a cell membrane; contains cytoplasm; contains a nucleus; contains membrane-bound organelles; tends to be microscopic in size; eukaryotic organisms may be single-celled or multicellular; Prokaryotic cells—surrounded by a cell membrane; contains cytoplasm; tends to be microscopic in size; prokaryotic organisms are single-celled; Both—surrounded by a cell membrane; contains cytoplasm; tends to be microscopic in size.
- a jellylike substance that contains dissolved molecular building blocks and, in some types of cells, organelles
- in the cytoplasm
- cell theory
- prokaryotic cells

**SECTION 2. CELL ORGANELLES**

- The cytoskeleton supports and shapes the cell, positions and transports organelles, provides strength, assists in cell division, and aids cell movement.
- The cytoskeleton supports and shapes the cell.
- The cytoskeleton helps the cell move.

- serves most of the genetic information of a cell; contains the nucleolus, where ribosomes are assembled
- endoplasmic reticulum
- link amino acids together to form proteins
- processes, sorts, and delivers proteins
- vesicles
- supply energy to the cell by converting molecules from food into usable energy
- serves materials needed by a cell; may help provide support to plant cells
- contains enzymes that break down damaged and worn-out cell parts; defends a cell from invaders
- organizes microtubules to form cilia and flagella for cell motion or the movement of fluids past a cell
- The cell walls are strong and rigid and adhere to each other, which helps to support the entire plant.
- All cells are surrounded by a cell membrane that is flexible and interacts with the environment. Only certain cells have a cell wall, which is rigid and provides shape and support to cells.
- They enable plants to convert solar energy into energy-rich molecules that cells can use.
- endoplasmic reticulum
- mitochondrion

**SECTION 3. CELL MEMBRANE**

- Student should draw and label: phosphate group; glycerol; fatty acid.
- the charged phosphate and glycerol
- the fatty acid tails
- polar
- outside the cell because of the extracellular fluid and inside the cell because of the cytoplasm
- The polar heads interact with the watery environments both inside and outside the cell. The nonpolar tails interact with each other inside the membrane.

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