

Biology

BioFlix Quiz - Tour of an Animal Cell

Write the answer to each question in the blank. Note that the order of the answer options does not match the online version of the quiz.

- ___1. Where is the genetic information of the cell stored?
 - A. nucleus
 - B. lysosomes
 - C. Golgi apparatus
 - D. rough endoplasmic reticulum (ER)
 - E. smooth endoplasmic reticulum (ER)
- ___2. The structural framework in a cell is the
 - A. cytoskeleton.
 - B. plasma membrane.
 - C. extracellular matrix.
 - D. endomembrane system
 - E. endoplasmic reticulum (ER).
- ___3. Where in a cell is ATP made?
 - A. nucleus
 - B. ribosomes
 - C. lysosomes
 - D. chloroplasts
 - E. mitochondria
- ___4. What carries instructions for making proteins from the nucleus into the cytoplasm?
 - A. ATP
 - B. DNA
 - C. mRNA
 - D. Rough ER
 - E. ribosomes
- ___5. One of the ways smooth endoplasmic reticulum (ER) differs from rough endoplasmic reticulum is that rough ER is covered by
 - A. ribosomes.
 - B. mitochondria.
 - C. the cytoskeleton.
 - D. the Golgi apparatus.
 - E. the extracellular matrix.
- ___6. Which of the following is part of the endomembrane system?
 - A. flagellum
 - B. ribosomes
 - C. cytoskeleton
 - D. mitochondria
 - E. Golgi apparatus
- ___7. Which of the following organelles breaks down worn-out organelles?
 - A. lysosomes
 - B. mitochondria
 - C. Golgi apparatus
 - D. rough endoplasmic reticulum (ER)
 - E. smooth endoplasmic reticulum (ER)
- ___8. Where are lipids made in the cell?
 - A. ribosomes
 - B. mitochondria
 - C. Golgi apparatus
 - D. rough endoplasmic reticulum (ER)
 - E. smooth endoplasmic reticulum (ER)
- ___9. What structure acts as a selective barrier, regulating the traffic of materials into and out of the cell?
 - A. cytoskeleton
 - B. nuclear envelope
 - C. plasma membrane
 - D. extracellular matrix
 - E. endomembrane system

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BioFlix Quiz - Tour of an Plant Cell

Write the answer to each question in the blank. Note that the order of the answer options does not match the online version of the quiz.

- ____1. Which plant cell organelle converts chemical fuel into packets of chemical energy that can power the cell?
- A. chloroplast
 - B. mitochondrion
 - C. central vacuole
 - D. Golgi apparatus
 - E. plasma membrane
- ____2. The plant cell wall
- A. is very similar to the animal cell wall.
 - B. is found just inside the plasma membrane.
 - C. regulates the composition of the cytoplasm.
 - D. is a protective structure made of cellulose fibrils.
 - E. makes food by converting light energy to chemical energy.
- ____3. Which of the following is a function of the central vacuole?
- A. Separating the cell from its surroundings
 - B. Storing compounds produced by the cell
 - C. Storing the genetic information of the cell
 - D. Working with mRNA to synthesize proteins
 - E. Converting light energy to chemical energy
- ____4. ____ are found only in plant cells, but ____ are found in both plant and animal cells.
- A. Cell walls; chloroplasts
 - B. Central vacuoles; ribosomes
 - C. Chloroplasts; central vacuoles
 - D. Lysosomes; plasma membranes
 - E. Plasma membranes; mitochondria
- ____5. Which of the following describes the function of the chloroplast?
- A. The chloroplast creates internal pressure for a cell.
 - B. The chloroplast functions as the site of lipid synthesis.
 - C. The chloroplast stores compounds produced by the cell.
 - D. The chloroplast converts light energy to chemical energy.
 - E. The chloroplast serves as a protein manufacturing facility.