

CELL QUIZ

Multiple Choice

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

- _____ 1. Who was one of the first people to identify and see cork cells?
a. Anton van Leeuwenhoek c. Matthias Schleiden
b. Robert Hooke d. Rudolf Virchow
- _____ 2. Which of the following is NOT a principle of the cell theory?
a. Cells are the basic units of life.
b. All living things are made of cells.
c. Very few cells reproduce.
d. All cells are produced by existing cells.
- _____ 3. The cell theory applies to
a. bacteria. c. multicellular organisms.
b. plants and animals. d. all of the above
- _____ 4. Looking at a cell under a microscope, you note that it is a prokaryote. How do you know?
a. The cell lacks cytoplasm. c. The cell lacks a nucleus.
b. The cell lacks a cell membrane. d. The cell lacks genetic material.
- _____ 5. Which of the following contain a nucleus?
a. prokaryotes c. eukaryotes
b. bacteria d. organelles
- _____ 6. Which of the following organisms are prokaryotes?
a. plants c. bacteria
b. animals d. all of the above
- _____ 7. Which structure makes proteins using coded instructions that come from the nucleus?
a. Golgi apparatus c. vacuole
b. mitochondrion d. ribosome
- _____ 8. Which organelle converts the chemical energy stored in food into compounds that are more convenient for the cell to use?
a. chloroplast c. endoplasmic reticulum
b. Golgi apparatus d. mitochondrion
- _____ 9. Which organelles help provide cells with energy?
a. mitochondria and chloroplasts c. smooth endoplasmic reticulum
b. rough endoplasmic reticulum d. Golgi apparatus and ribosomes
- _____ 10. Which organelle would you expect to find in plant cells but not animal cells?
a. mitochondrion c. chloroplast
b. ribosome d. smooth endoplasmic reticulum

Name: _____

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- _____ 11. The main function of the cell wall is to
- a. support and protect the cell.
 - b. store DNA.
 - c. direct the activities of the cell.
 - d. help the cell move.
- _____ 12. You will NOT find a cell wall in which of these kinds of organisms?
- a. plants
 - b. animals
 - c. fungi
 - d. all of the above
- _____ 13. Which of the following structures serves as the cell's boundary from its environment?
- a. mitochondrion
 - b. cell membrane
 - c. chloroplast
 - d. channel proteins
- _____ 14. Which of the following is a function of the cell membrane?
- a. breaks down lipids, carbohydrates, and proteins from foods
 - b. stores water, salt, proteins, and carbohydrates
 - c. keeps the cell wall in place
 - d. regulates which materials enter and leave the cell
- _____ 15. The cell membrane contains channels and pumps that help move materials from one side to the other. What are these channels and pumps made of?
- a. carbohydrates
 - b. lipids
 - c. bilipids
 - d. proteins