

# Cells: The Basic Unit of Life

## Part I – Multiple Choice: Choose the best answer for each question.

1. What is the basic unit of life?
  - A. Tissue
  - B. Organ
  - C. Cell
  - D. Atom
2. Which scientist first observed cells using a microscope?
  - A. Isaac Newton
  - B. Robert Hooke
  - C. Charles Darwin
  - D. Albert Einstein
3. Which organelle controls the activities of the cell?
  - A. Cell membrane
  - B. Cytoplasm
  - C. Nucleus
  - D. Ribosome
4. What is the jelly-like substance inside a cell called?
  - A. Cytoplasm
  - B. Chloroplast
  - C. Vacuole
  - D. Cell wall
5. Which organelle is known as the “powerhouse of the cell”?
  - A. Nucleus
  - B. Mitochondria
  - C. Ribosome
  - D. Golgi body
6. Plant cells have a rigid outer layer called:
  - A. Cytoplasm
  - B. Cell membrane
  - C. Cell wall
  - D. Nucleus
7. Which organelle contains chlorophyll?
  - A. Chloroplast
  - B. Vacuole
  - C. Ribosome
  - D. Mitochondria
8. Which type of cell does NOT have a nucleus?
  - A. Plant cell
  - B. Animal cell
  - C. Prokaryotic cell
  - D. Eukaryotic cell
9. What controls what enters and leaves the cell?
  - A. Nucleus
  - B. Cell membrane
  - C. Ribosome
  - D. Chloroplast
10. Which organelle makes proteins?
  - A. Ribosome
  - B. Nucleus
  - C. Vacuole
  - D. Mitochondria

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## Part II – True or False: Write T or F on the line.

11. \_\_\_\_\_ All living things are made of cells.
12. \_\_\_\_\_ Animal cells have cell walls.
13. \_\_\_\_\_ The nucleus contains genetic material.
14. \_\_\_\_\_ Chloroplasts are found in plant cells.
15. \_\_\_\_\_ Cells can only be seen without a microscope.

16. \_\_\_\_\_ Cytoplasm fills the inside of the cell.
  17. \_\_\_\_\_ Mitochondria help produce energy for the cell.
  18. \_\_\_\_\_ Prokaryotic cells are more complex than eukaryotic cells.
  19. \_\_\_\_\_ Vacuoles store water, food, and waste materials.
  20. \_\_\_\_\_ The cell membrane is found in both plant and animal cells.
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### Part III - Fill in the Blank

cytoplasm	Robert Hooke	mitochondria	cell membrane
ribosomes	chloroplasts	cell wall	
	nucleus	cell	prokaryotic

21. The \_\_\_\_\_ is the control center of the cell.
  22. Tiny structures that make proteins are called \_\_\_\_\_.
  23. Plant cells contain green structures called \_\_\_\_\_.
  24. The \_\_\_\_\_ protects and supports plant cells.
  25. The basic unit of life is the \_\_\_\_\_.
  26. The jelly-like material inside the cell is called \_\_\_\_\_.
  27. \_\_\_\_\_ are known as the powerhouse of the cell.
  28. The \_\_\_\_\_ controls what enters and exits the cell.
  29. Cells that do not have a nucleus are called \_\_\_\_\_ cells.
  30. The scientist who first observed cells was \_\_\_\_\_.
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