

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

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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