

## **Cell Theory Quiz PDF**

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Why is the understanding of cell structure important for studying diseases like cancer?	
	//
Discuss the impact of cell theory on modical research and histochnology	
Discuss the impact of cell theory on medical research and biotechnology.	
	//
How does the process of mitosis differ from meiosis in terms of outcomes and purpose?	
	/1
Which scientists contributed to the development of cell theory? (Select all that apply)	
☐ Matthias Schleiden	



☐ Theodor Schwann	
☐ Albert Einstein	
☐ Rudolf Virchow	
Explain the significance of the cell theory in modern biology.	
	//
Describe the differences between prokaryotic and eukaryotic cells.	
	//
What is the primary function of ribosomes?	
○ Lipid synthesis	
O Protein synthesis	
O DNA replication	
○ Energy production	
Which organelle is involved in modifying and packaging proteins?	
○ Endoplasmic Reticulum	
○ Golgi Apparatus	
○ Lysosome	
○ Nucleus	
Which of the following organelles are found in plant cells? (Select all that apply)	
☐ Chloroplasts	



☐ Mitochondria
Ribosomes
☐ Centrioles
Which scientist is known for co-developping the cell theory?
○ Robert Hooke
○ Albert Einstein
○ Theodor Schwann
○ Charles Darwin
Who is credited with the statement "All cells arise from pre-existing cells"?
○ Matthias Schleiden
○ Theodor Schwann
○ Rudolf Virchow
○ Louis Pasteur
What role do mitochondria play in cellular metabolism?
Which organelle is responsible for energy production in the cell?
○ Chloroplast
Ribosome
Mitochondria
○ Golgi Apparatus
Which of the following are components of the cell theory? (Select all that apply)
☐ All living organisms are composed of cells.
Cells are the basic unit of life.



☐ All cells come from pre-existing cells.
What is the basic unit of structure and function in living organisms?
<ul><li>○ Tissue</li><li>○ Organ</li><li>○ Cell</li><li>○ Organism</li></ul>
What process results in two identical daughter cells?
<ul><li>Meiosis</li><li>Binary fission</li><li>Mitosis</li><li>Fertilization</li></ul>
Which processes are involved in cell division? (Select all that apply)
<ul><li></li></ul>
Which of the following are true about eukaryotic cells? (Select all that apply)
<ul> <li>☐ They have a nucleus.</li> <li>☐ They lack membrane-bound organelles.</li> <li>☐ They are typically larger than prokaryotic cells.</li> <li>☐ They include plant and animal cells.</li> </ul>
What are the functions of the cell membrane? (Select all that apply)
<ul> <li>□ Energy production</li> <li>□ Protection</li> <li>□ Regulation of material transport</li> <li>□ DNA replication</li> </ul>
Which type of cell lacks a nucleus?
○ Eukaryotic



O Prokaryotic
O Plant
<ul><li>Animal</li></ul>