

## Plant And Animal Cell Quiz Questions and Answers PDF

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What structure do animal cells use for movement?		
<ul><li>Chloroplasts</li><li>Cilia and Flagella ✓</li><li>Plasmodesmata</li><li>Central Vacuole</li></ul>		
Animal cells use structures called flagella and cilia for movement. These are hair-like projections that call propel the cell through its environment or move substances along the cell surface.		
Which of the following are found in both plant and animal cells? (Select all that apply)		
<ul> <li>Nucleus ✓</li> <li>Chloroplasts</li> <li>mitochondria ✓</li> <li>Cell Wall</li> </ul>		
Both plant and animal cells share several common organelles, including the nucleus, mitochondria, and endoplasmic reticulum, which are essential for various cellular functions.		
Which structures are unique to plant cells? (Select all that apply)		
☐ Central Vacuole ✓		
☐ Centrioles		
☐ Chloroplasts ✓		
☐ Plasmodesmata ✓		
Plant cells have unique structures that distinguish them from animal cells, including cell walls, chloroplasts, and large central vacuoles. These components are essential for processes like photosynthesis and maintaining cell structure.		

Which organelles are involved in energy production? (Select all that apply)

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	Chloroplasts ✓	
	mitochondria ✓	
	Ribosomes	
	Lysosomes	
	The primary organelles involved in energy production are mitochondria and chloroplasts. Mitochondria generate ATP through cellular respiration, while chloroplasts are responsible for photosynthesis in plant cells.	
W	hich of the following are involved in cellular transport? (Select all that apply)	
	Cell Membrane ✓	
	Plasmodesmata ✓	
	mitochondria	
	Smooth ER	
	Cellular transport involves various mechanisms and components, including passive transport, active transport, and transport proteins such as channels and carriers. These processes are essential for maintaining homeostasis and facilitating the movement of substances across cell membranes.	
Which structure is found only in plant cells and not in animal cells?		
_	Cell membrane	
_	Nucleus  Cell wall ✓	
_	Lysosomes	
_		
	Plant cells contain structures called chloroplasts, which are responsible for photosynthesis and are not found in animal cells. Additionally, plant cells have a rigid cell wall that provides structural support, which is also absent in animal cells.	
W	hat is the role of ribosomes in the cell?	
0	Photosynthesis	
0	Protein synthesis ✓	
$\bigcirc$	Lipid storage	
$\bigcirc$	DNA replication	
	Ribosomes are essential cellular structures that synthesize proteins by translating messenger RNA (mRNA) into polypeptide chains, which then fold into functional proteins. They play a critical role in the expression of genes and the overall functioning of the cell.	

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Which organelle is primarily involved in detoxification processes?		
○ S	ough ER  mooth ER   olgi Apparatus  vsosomes	
	he smooth endoplasmic reticulum (SER) is the organelle primarily involved in detoxification processes, it helps metabolize drugs and toxins in the cell.	
Whic	ch organelle is known as the powerhouse of the cell?	
O C	ucleus hloroplast ndoplasmic Reticulum	
pr	the mitochondrION is often referred to as the powerhouse of the cell because it is responsible for roducing adenosine triphosphate (ATP), the energy currency of the cell. This organelle plays a crucial sole in cellular respiration and energy metabolism.	
Wha	t functions are associated with the Golgi Apparatus? (Select all that apply)	
<ul><li>□ Pl</li><li>□ Pa</li></ul>	odifying proteins ✓ hotosynthesis ackaging lipids ✓ NA replication	
Se	the Golgi Apparatus is primarily involved in modifying, sorting, and packaging proteins and lipids for excretion or delivery to other organelles. It plays a crucial role in the post-translational modification of roteins and the formation of lysosomes.	
Wha	t is the primary component of the plant cell wall?	
○ Li	rotein pid ellulose ✓ tarch	
	he primary component of the plant cell wall is cellulose, which provides structural support and rigidity to se cell. Cellulose is a polysaccharide made up of glucose units and is crucial for maintaining the plant's	

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I	shape and integrity.
WI	nich organelles are involved in protein synthesis and processing? (Select all that apply)
	Ribosomes ✓ Golgi Apparatus ✓ Lysosomes Rough ER ✓
	The organelles involved in protein synthesis and processing include ribosomes, the endoplasmic reticulum, and the Golgi apparatus. These structures work together to translate genetic information into functional proteins and modify them for their specific roles.
WI	nich organelle is responsible for photosynthesis in plant cells?
0	mitochondria  Chloroplasts ✓  Ribosomes  Golgi Apparatus
	The organelle responsible for photosynthesis in plant cells is the chloroplast. Chloroplasts contain chlorophyll, which captures light energy to convert carbon dioxide and water into glucose and oxygen.
WI	nat is the primary function of the nucleus in both plant and animal cells?
0	Protein synthesis  Energy production  Genetic material storage ✓  Lipid synthesis
	The nucleus serves as the control center of the cell, housing the cell's genetic material and regulating gene expression and cell division.