A View of the Cell

Reinforcement and Study Guide

Section 7.1 The Discovery of Cells

In your textbook, read about the history of the cell theory.

For each statement in Column A, write the letter of the matching item in Column B.

Column A	Column B	
1. The first scientist to describe living cells as seen through a simple microscope	a. Schleiden	
2. Uses two or more glass lenses to magnify either living cells or prepared slides	b. compound light microscope	
3. A scientist who observed that cork was composed of tiny, hollow boxes that he called cells	c. electron microscope	
4. A scientist who concluded that all plants are composed of cells	d. Schwann	
5. A scientist who concluded that all animals are composed of cells	e. Hooke	
6. The microscope that allowed scientists to view molecules	f. Leeuwenhoek	

In your textbook, read about the two basic cell types.

Complete the table by checking the correct column for each statement.

Statement	Prokaryotes	Eukaryotes
7. Organisms that have cells lacking internal membrane-bound structures		
8. Do not have a nucleus		
9. Are either single-celled or made up of many cells		
10. Generally are single-celled organisms		
11. Organisms that have cells containing organelles		



A View of the Cell, continued

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Section 7.2 The Plasma Membrane

In your textbook, read about maintaining a balance.

Use each of the terms b	elow just once to compl	ete the passage.	
glucose organism	plasma membrane balance	homeostasis selective permeability	
Living cells maintain a (1) by control	ling materials that enter and leave. Without this	
ability, the cell cannot ma	intain (2)	and will die. The cell must regulate internal con-	
centrations of water, (3)	, and other	er nutrients and must eliminate waste products.	
Homeostasis in a cell is m	aintained by the (4)	, which allows only certain	
particles to pass through a	and keeps other particles o	out. This property of a membrane is known as	
(5)	It allows differen	t cells to carry on different activities within the	
same (6)			
	maintain homeostasis. 8. The plasma membran embedded in it.	operties of the cell wall allow it to be selective and e is a bilayer of lipid molecules with protein molecules	
yetanadoli tamona		rule has a nonpolar, water-insoluble head attached to	
	10. The fluid mosaic mod is liquid and very rigio	c model describes the plasma membrane as a structure that y rigid.	
	11. Eukaryotic plasma me the membrane more s	nembranes can contain cholesterol, which tends to make e stable.	
		span the cell membrane, creating the selectively permeregulates which molecules enter and leave a cell.	
21 1 1 1 1 1 1 1 1 1	경기를 가게 되었다면 하는데 하는데 그 생각이 되어 살아 있다고 있는데 없어 보다.	surface of the plasma membrane attach the membrane	