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## SECTION 4-2 REVIEW

## PARTS OF THE EUKARYOTIC CELL

**VOCABULARY REVIEW** Distinguish between the terms in each of the following pairs of terms.

1.	peripheral protein, integral protein	
2.	. cytoplasm, cytosol	
3.	cilia, flagella	
MU	JLTIPLE CHOICE Write the correct letter in t	he blank.
	<b>1.</b> The cell membrane	
	<ul><li>a. allows all substances to pass into and out of the cell.</li><li>b. prevents all substances from passing into and out of the cell.</li></ul>	<ul><li>c. is composed mainly of a protein bilayer.</li><li>d. is composed mainly of a lipid bilayer.</li></ul>
	<b>2.</b> Substances produced in a cell and exported outside of the cell would pass through t	
	<ul><li>a. endoplasmic reticulum and Golgi apparatus.</li><li>b. mitochondria and Golgi apparatus.</li></ul>	<ul><li>c. nucleus and lysosomes.</li><li>d. vacuoles and lysosomes.</li></ul>
	<b>3.</b> Cells that have a high energy requirement	generally have many
	<b>a.</b> nuclei. <b>b.</b> flagella.	c. mitochondria. d. microfilaments.
	<b>4.</b> Viruses, bacteria, and old organelles that a cell ingests are broken down in	
	<ul><li>a. ribosomes.</li><li>b. lysosomes.</li></ul>	<ul><li>c. the rough endoplasmic reticulum.</li><li>d. the smooth endoplasmic reticulum.</li></ul>
	<b>5.</b> Organelles that are surrounded by two membranes and contain DNA are the	
	<ul> <li>a. nucleus, the endoplasmic reticulum, ar</li> <li>b. nucleus, the endoplasmic reticulum, ar</li> <li>c. nucleus, chloroplasts, and mitochondr</li> <li>d. endoplasmic reticulum, mitochondria,</li> </ul>	nd chloroplasts. ia.

23

Nar	ne Class Date
SH	<b>ORT ANSWER</b> Answer the questions in the space provided.
1.	What roles do membrane proteins play in making the cell membrane selectively permeable?
2.	What are ribosomes made of?
	What cellular function are they involved in?
3.	What is the cytoskeleton, and what are two of its major components?
4.	Describe the structural organization shared by cilia and flagella.
5.	What are plant cell walls made of?
6.	What is the function of cell walls?
	up large globales of the lipid lifto inden smaller globales. What effect do you tillink a detergent would

have on the integrity of cells? Explain your answer.

## **STRUCTURES AND FUNCTIONS** Label each part of the figure in the spaces provided.

This diagram represents a typical plant cell.

