# تم تحميل هذا الملف من موقع المناهج الإماراتية





## حل مراجعة اختيار من متعدد منهج بريدج

موقع المناهج ← المناهج الإماراتية ← الصف العاشر العام ← علوم ← الفصل الأول ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 12-11-202:08

ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة علوم:

#### التواصل الاجتماعي بحسب الصف العاشر العام











صفحة المناهج الإماراتية على فيسببوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

#### المزيد من الملفات بحسب الصف العاشر العام والمادة علوم في الفصل الأول

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## **BIOLOGY REVISION-TERM 1**

### **CHAPTER 1**

Q1.	What does the image above show?
Α	A covalent bond
В	A physical property
С	A chemical reaction
D	Van der Waals forces

Q2	Which of these is a pure substance that cannot be broken down by	a chemical reaction?
Α	A neutron	
В	An element	
С	A mixture	
D	A compound	

Q3	Which of the following is a substance that lowers the activation energy?
Α	A substrate
В	A catalyst
С	A reactant
D	An anion

Q4	In which of the following are bonds broken and new bonds formed?
Α	Chemical reactions
В	Elements
С	Isotopes
D	Polar molecules

Q5	Which statement is true of chemical reactions?
Α	Reactants are on the right
В	Products are on the right
С	Products have fewer atoms than reactants
D	Reactants have fewer atoms than products

Q6	What does the image below show?
Α	A heterogeneous mixture
В	A homogeneous mixture
С	A solution
D	A suspension
Q7	Which statement is not true about pure water?
Α	It has a pH of 7.0
В	It is composed of polar molecules
С	It is composed of ionic bonds
D	It is a good solvent
Q8	Which is a substance that produces OH- ions when it is dissolved in water?
Α	A base
В	An acid
С	A buffer
D	A salt
09	Which two elements are always found in amino acids?

Q9	Which two elements are always found in amino acids?	2024
Α	Nitrogen and sulfur	
В	Carbon and oxygen	
С	Hydrogen and phosphorus	
D	Sulfur and oxygen	

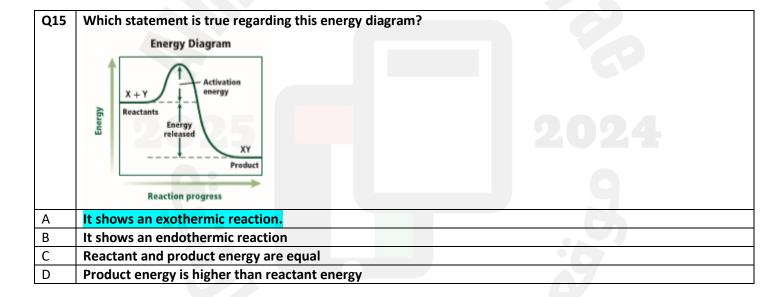
Q10	Which joins amino acids together?	
A	Peptide bonds	
В	Hydrogen bonds	
С	Van der Waal forces	
D	Ionic bonds	

Q11	Which substance is not part of a nucleotide?
Α	A phosphate
В	A base
С	A sugar
D	Water Company of the

Q12	pH is a measure of the concentration of which ions in a solution?
Α	Oxygen ions
В	Carbon ions
С	Nitrogen ions
D	Hydrogen ions

Q13	Which of the following are biological catalysts?
Α	acids
В	enzymes
С	proteins
D	lipids

Q14	The specific location where a substrate binds on an enzyme is called the	
Α	active site	
В	enzyme-substrate complex	
С	binding point	
D	catalyst	



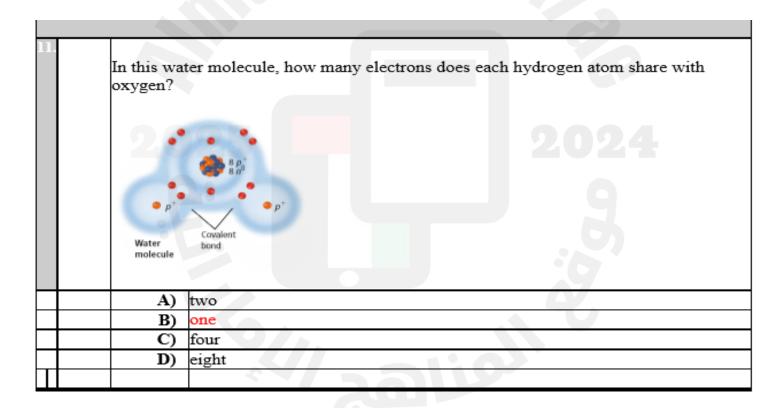
Q16	What is the function of the enzyme-substrate complex?
Α	destroy the enzyme
В	prevent bondage at the active site
С	stop chemical reactions
D	break and forming chemical bonds

Q17	What are saturated fats?
Α	Lipids with double bonds between carbon atoms
В	proteins with double bonds between carbon atoms
С	lipids with single bonds between carbon atoms
D	proteins with single bonds between carbon atoms

Q18	The minimum amount of energy needed for a chemical reaction is called		
Α	product threshold		
В	absorbent energy		
С	principle mass		
D	activation energy		

Q19	Molecules made from units of identical compounds linked by covalent bonds are called
A	polymers
В	nucleic acids
С	Elements
D	atoms

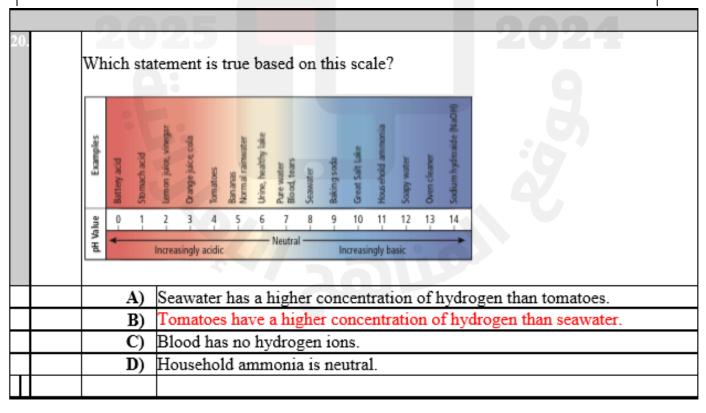
Q20	How do buffers help maintain homeostasis?	
Α	neutralize acids and bases	
В	raise pH above 9	
С	lower pH below 4	
D	remove all hydrogen ions	



12.	Molecules called	made from units of identical compounds linked by covalent bonds are
$\neg$	A)	polymers
	B)	nucleic acids
	C)	elements
	D)	atoms
П		
3.	The minin	num amount of energy needed for a chemical reaction is called
	A)	product threshold
$\neg \vdash$	B)	absorbent energy
	C)	principle mass
		activation energy
$\top$		

These mo	lecules are	formed by _				
Straight chair	molecules	Branched molecu	les l	Ring molecules		
666	eee (					
A)	amino acid	1				
B)	phosphoru					
C)	carbon					
D)	potassium					

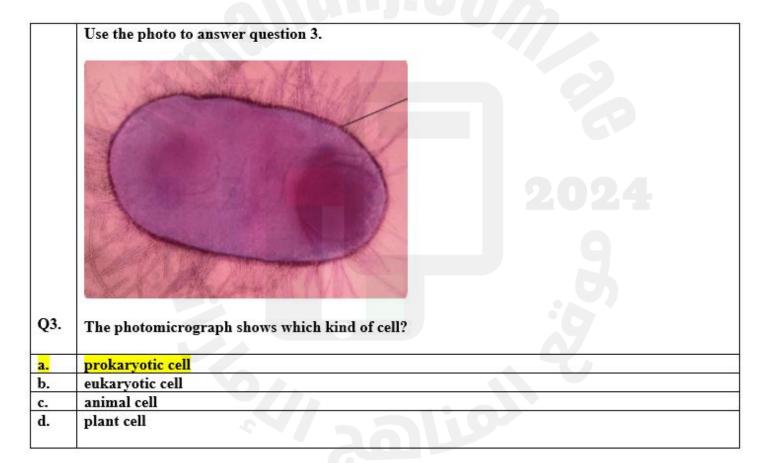
16.	What is the function of the enzyme-substrate complex?						
-	A) destroy the enzyme						
	B)	prevent bondage at the active site					
	(C)	stop chemical reactions					
$\top$	D)	break and forming chemical bonds					
П							
		Glycagen (polysaccharide)					
+	A)	elements called carbohydrates					
+	B)	macromolecules called carbohydrates					
+	(C)	compounds called proteins					
+	D)	compounds called nucleic acids					
ш_							



### **CHAPTER 2**

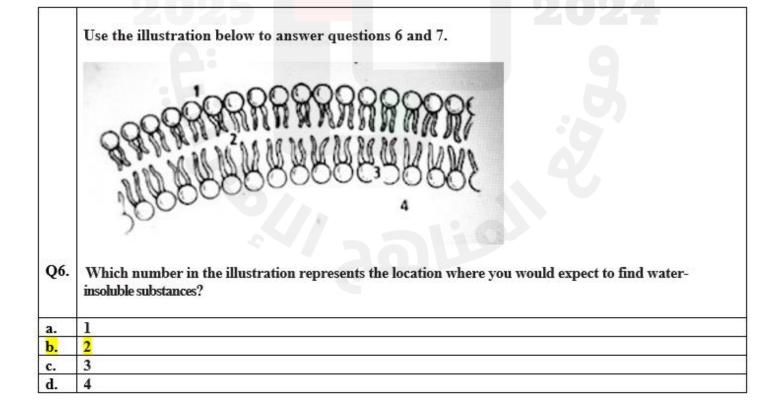
Q1.	If a microscope has a series of three lenses that magnify individually 5×, 5×, and 7×, what is the total magnification of the microscope?
a.	25x
b.	35x
c.	17x
d.	175x

Q2.	Which is not part of the cell theory?	
a.	The basic unit of life is the cell.	
b.	Cells came from preexisting cells.	
c.	All living organisms are composed of cells.	
d.	Cells contain membrane-bound organelles.	

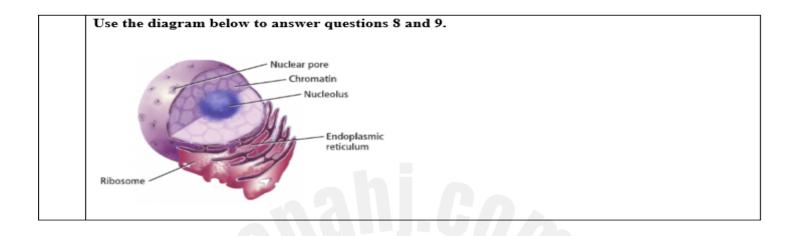


Q4.	Which of the following orientations of phospholipids best represents the phospholipid bilayer of the plasma membrane?
<mark>a.</mark>	
b.	
c.	
d.	

Q5.	Which situation would increase the fluidity of a phospholipid bilayer?	
a.	decreasing the temperature	
b.	increasing the number of proteins	
c.	increasing the number of cholesterol molecules	
d.	increasing the number of unsaturated fatty acids	



<b>Q</b> 7.	Which is the effect of having the polar and nonpolar ends of phospholipid molecules oriented as
	they are in the illustration?
a.	It allows transport proteins to move easily through the membrane.
b.	It controls the movement of substances across the membrane.
c.	It helps the cell to maintain its characteristic shape.
d.	It makes more room inside the phospholipid bilayer.



Q9.	Which is the site of protein synthesis?	
a.	Nuclear pore	
b.	Endoplasmic reticulum	
c.	chromatin	
d.	nucleolus	

Q10.	In which structure would you expect to find a cell wall?	2024
a.	Human skin cell	
b.	Cell from an oak tree	
c.	Blood cell from a cat	
d.	Liver cell from a mouse	

Q11.	Which is not a factor that effects the rate of diffusion?	
a.	conductivity	
b.	concentration	
c.	pressure	
d.	temperature	

Q12.	In which type of cell would you find a chloroplast?
a.	prokaryote
b.	animal
c.	plant
d.	fungus

Q13.	Which of the following are called the powerhouses of cells?	
a.	Ribosomes	
b.	cytoplasm	
c.	mitochondria e e e e e e e e e e e e e e e e e e e	
d.	centrioles	

Q14.	How many layers of phospholipid molecules make up the plasma membrane?
a.	3
b.	2
c.	4
d.	1

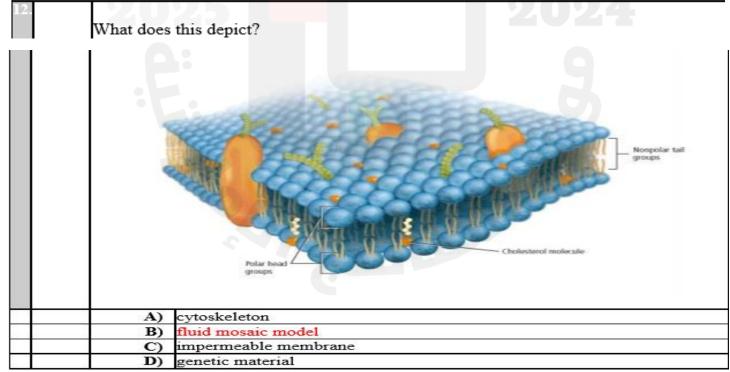
Q15.	Which set of conditions effect the rate of diffusion?	
a.	Mass, temperature, and volume	
b.	Weight, volume, and pressure	
c.	Mass, volume, and concentration	
d.	Concentration, temperature, and pressure	

Which of t	he following is not a fundamental idea of cell theory?
A)	All organisms contain prokaryotic cells.
B)	Cells arise only from previously existing cells.
C)	Cells are the basic unit of structure for all living organisms.
D)	All living organisms are composed of one or more cells.
A con	ntains polar and nonpolar ends, forming the plasma membrane.
A)	microtubule
A) B)	microtubule transport protein
A) B) C)	microtubule transport protein cytoskeleton
A) B) C)	microtubule transport protein

	A11'	
	A cell's ger	netic material is contained in the
	A)	plasma membrane
	B)	nucleus
	C)	unicellular bacteria
_	D)	phospholipid bilayer
П	T	
ı	In which c	ell structure are ribosomes produced?
	A)	microtubules
	B)	nucleolus
	C)	plasma membrane
	<b>D</b> )	golgi apparatus
	Water Water  Water molecule  Solute	
Н	A)	Osmosis was prevented in the cell.
	B)	Osmosis caused the cell to shrivel.
	C)	
		Osmotic pressure caused the cell to rupture.
		Osmotic pressure caused the cell to rupture. The cell was damaged by bacteria.
	D)	
	D)	The cell was damaged by bacteria.
	The semifi	The cell was damaged by bacteria.  uid environment inside the plasma membrane is called
	The semifl  A) B)	The cell was damaged by bacteria.  uid environment inside the plasma membrane is called  endoplastic reticulum

This shows an example of endoplasmic reticulum. What is the significance of its structure? Rough endoplasmic reticulum Ribosome Smooth endoplasmic reticulum provides a location for DNA production helps decrease surface area allows selective permeability of cell membrane facilitates breakdown of chemical bonds Vesicles that digest worn-out organelles or food particles are called \_\_\_\_\_. lysosomes A) centrioles B) ribosomes plasma membranes What critical function does cholesterol serve in the body? destroys the plasma membrane A) binds fatty acid tails to water disrupts homeostasis increases fluidity of plasma membrane What describes transport proteins moving molecules across the plasma membrane?

	- Francisco
A)	diffusion
B)	osmosis
(C)	dynamic equilibrium
D)	facilitated diffusion
	Robert Hooke use to study this organism?
A) B)	light microscope electron microscope
C)	cork chamber
D)	DNA analysis
	DIVI mury 313
12. What doe	s this depict?

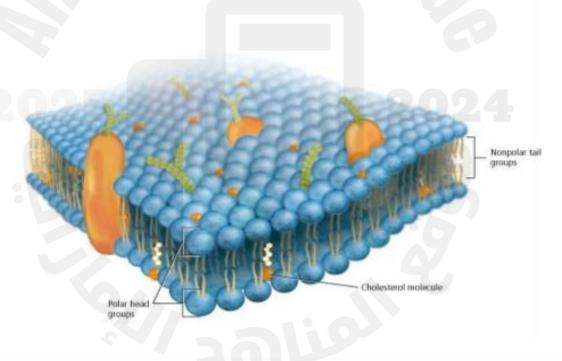


13.	What effec	et has eukaryotic evolution had on cells?
_	A)	more simplified structures
	B)	greater adaptability
$\vdash$		eliminated organelles
	D)	decreased cell diversity
$\Box$		decreases cent diversity
		<u> </u>
14.	What is on microscope	
	A)	cells cannot absorb electrons
	B)	not as powerful as light microscopes
	C)	cells die when prepared for viewing
15.	What is the	function of a selectively permeable membrane?
	A)	provides alternative to phospholipid bilayer
		prevents transport proteins from harming cell
	<b>C</b> )	controls what enters and leaves cell
	<b>D</b> )	blocks all water from entering cell
П		
16.	What move	es needed substances or waste materials through the plasma membrane?
	A)	transport proteins
	B)	polar heads
	C)	DNA
	D)	water molecules
П		
17.	Which of the	he following is not a function of the Golgi apparatus?
	A)	modifies proteins
-		produces proteins
$\dashv$		organizes where proteins are sent
+	D)	packages proteins into vesicles
	וע ו	packages proteins into vesteres

_		
18.	Which of	the following is not true of exocytosis?
	A)	results in hormone secretion
	B)	does not require energy input
	(C)	allows waste matter to be expelled
	<b>D</b> )	
19.	Which of t	hese describes continuous particle movement with no overall change in ion?
	A)	selective permeability
	B)	facilitated diffusion
	C)	osmosis
	D)	dynamic equilibrium
20.		misting fruits and vegetables with water help them look fresh?
	A)	Vacuoles fill with water due to osmosis.
	B)	31
	<b>C</b> )	Plants do not have a rigid cell wall.
	D)	Water cannot move through the cell membrane.
	-	
	_00	05 0004
1.	A is tl	ne basic structural and functional unit of all living things.
	<b>A</b> ) eυ	skaryotic cell
	B) p1	asma membrane
	C) m	ıcleus
	D) ce	:11
ППП		
2.	Which cellu	ular structure helps control what enters and leaves the cell?
	<b>A</b> ) cy	rtoplasm
	<b>B</b> ) cy	rtoskeleton
	C) pl	asma membrane
	<b>D</b> ) nı	ıcleus

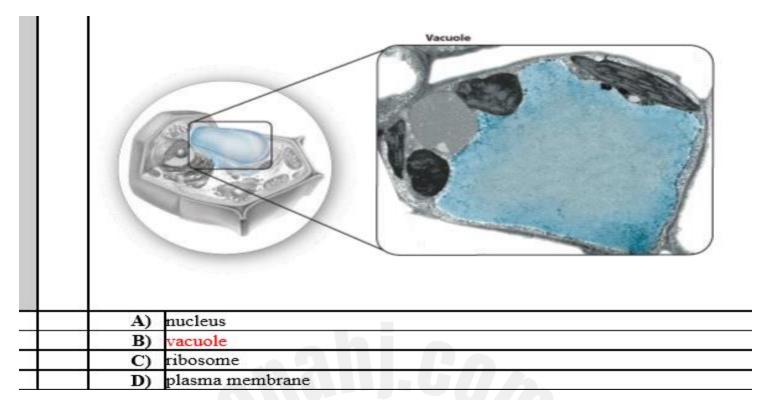
3.	Which of	f the following is not one of the fundamental ideas of cell theory?
	A)	All cells contain specialized internal structures.
	B)	Cells are the basic unit of structure and organization of all living organisms.
	C)	All living organisms are composed of one or more cells.
	D)	Cells arise only from previously existing cells.
П		
4.	Materials	s can cross the plasma membrane through tunnels created by
	A)	organelles
	B)	transport proteins
	C)	water molecules
$\Box$	D)	glucose molecules
5.		

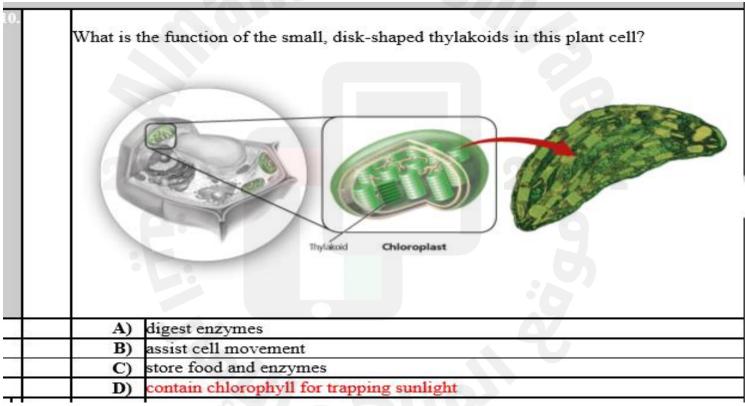
This picture shows a phospholipid bylayer. What crucial function do the nonpolar tails of the phospholipids have?

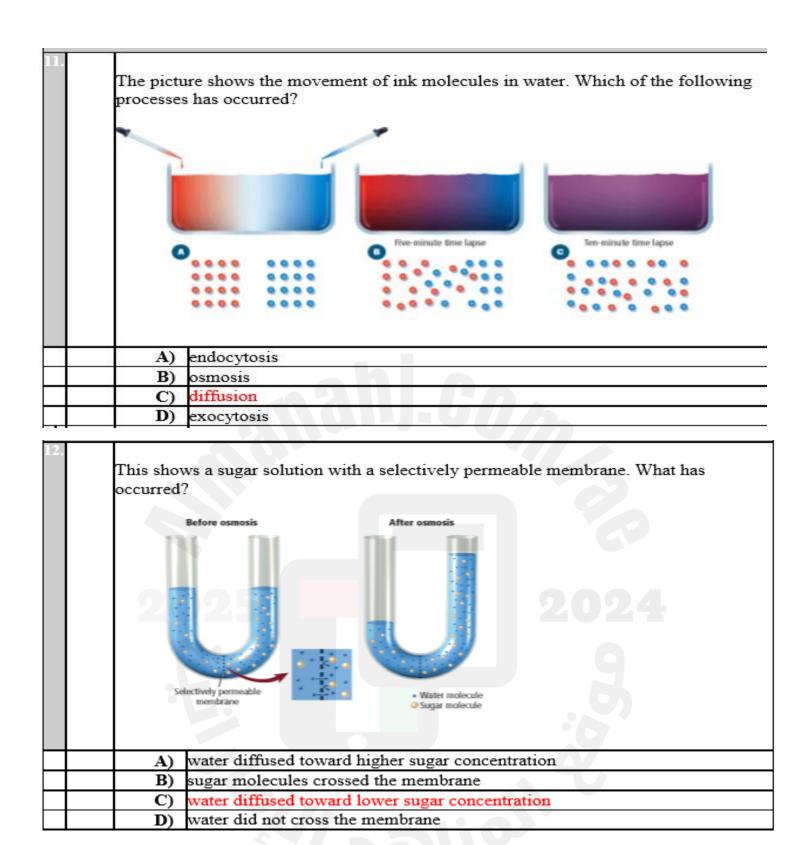


	A)	speed chemical reactions with enzymes
	B)	keep water-soluble substances from passing easily into the cell
	C)	allow water-soluble substances to pass easily into the cell
	D)	help encode genetic material
-		

		<del></del>
	A)	It forms a shell around the cell nucleus.
	B)	
	(C)	Transport proteins are blocked from entering plasma membrane.
	(D)	Arrangement of phospholipids enables selective permeability.
	Т	
	The	is a network of fibers that form a framework and anchor organelles.
_	A)	endoplasmic reticulum
$\dashv$	B)	cytoplasm
┪	C)	cytoskeleton
┪		golgi apparatus
$\dashv$	<i>D</i> )	goigi apparatus
	function	the structure of this mitochondrion. Why is its inner membrane crucial for hing?  Mitochondrion
		ning?
	function	Mitochondrion  Mitochondrion  Outer membrane  Outer membrane
	function	ming?  Mitochondrion  Outer membrane  provides a large surface area
	A) B)	ming?  Mitochondrion  Outer membrane  provides a large surface area keeps sunlight from damaging cell
	A) B)	provides a large surface area keeps sunlight from damaging cell provides inflexible barrier on cell surface
	A) B)	ming?  Mitochondrion  Outer membrane  provides a large surface area keeps sunlight from damaging cell
	A) B)	provides a large surface area keeps sunlight from damaging cell provides inflexible barrier on cell surface
	A) B)	provides a large surface area keeps sunlight from damaging cell provides inflexible barrier on cell surface







		ld you prevent cells from bursting in an extremely hypotonic solution?
Hov	v cou	id you prevent cens from oursting in an extremely hypotonic solution?
1	<b>A</b> )	Allow water to increase osmotic pressure.
		Decrease the concentration of solute outside cell.
		Increase the concentration of solute outside the cell.
		Wait for diffusion to reach equilibrium.
		•
4. Hov	v do c	carrier proteins facilitate active transport?
	A)	block the plasma membrane
$\top$		move substances against a concentration gradient
$\top$		prevent homeostasis
$\top$	D)	create an isotonic solution
П		Allw-7-U//
5.		
5. Wha		significant difference of endocytosis and exocytosis?
5. Wha	A)	Exocytosis does not require energy input.
5. Wha	A) B)	Exocytosis does not require energy input.  Endocytosis does not involve waste secretion.
5. Wha	A) B) C)	Exocytosis does not require energy input.  Endocytosis does not involve waste secretion.  Endocytosis does not require energy input.
5. Wha	A) B)	Exocytosis does not require energy input.  Endocytosis does not involve waste secretion.
5. Wha	A) B) C)	Exocytosis does not require energy input.  Endocytosis does not involve waste secretion.  Endocytosis does not require energy input.