Osmosis & Diffusion Review Sheet		Name:		Pd:	
Fill in the Blank: Wri	ite in the correct ans	wer			
away	low	high	hypertonic	hypotonic	
diffusion	molecules	osmosis	vacuole	water	
solute	permeable	towards	semi-permeable	concentration gradient	
1. The cell membrane	regulates and controls	what kind of	move	in & out of the cell.	
2. When molecules spi	read from an area of h	igh to low concentration	on to, it is called		
3. As molecules diffus	e, they create a	,w	which is a difference in c	concentrations across space.	
4. Cell membranes are	2	This means tha	t they only allow certain	n things to pass through.	
5. A membrane that we	ould allow ANYTHIN	IG to pass through it w	ould be called		
6. Diffusion is the mov	vement of molecules.	Osmosis is the diffusion	on of	·	
7	is the process	of water molecules mo	ving across a cell memb	orane.	
		is determined by the di e solvent inside and ou	fference in the concentration that the cell.	ration of	
9. Osmotic pressure, o	r osmosis, pushes wat	er molecules	the arc	ea of greater solute concentration	
10. Water molecules as	re pulled	from ar	eas of lower solute cond	centration.	
11. The word hyperton	ic means	concent	ration of solutes.		
12. The word hypotoni	ic means	concenti	ration of solutes.		
		C	mbrane, when it is plac	ed in a solution with a HIGH	
		retching of the cell me olution causes cytolysis		ed in a solution with a very LOW	
			the cell membrane to be at holds this water from	be pushed up against the cell wall in the turgor pressure?	
Isotonic Solutions: Ci					
16. The concentration (A) less than	of the solutes inside t (B) greater		e concentration outside C) equal to	the cell.	
17. Water molecules w		(D) (3) 33 33 33 33 33 33 33 33 33 33 33 33 3			
(A) into the cell faster the cell	than out of	(B) out of the cell faste will move into the	-	in and out of the cell at the same rate	
cause the cell mem to shrivel. If the turgor pressure is:	nbrane to press up aga urgor pressure is kept	inst the cell wall and a constant, the cell mem	decrease in turgor press brane will maintain its s	crease in turgor pressure can sure can cause the cell membrane shape. In an <u>isotonic</u> solution, the	
(A) normal	(B) decreas	ing (C	C) increasing		

19.	In animal cells, the cell me (A) shrivel up	embrane will: (B) be normal	(C) expand & possibly burst				
20.	In the picture to the right, t (A) mostly out	the movement of water ac (B) mostly in	cross the membrane will be (C) in and out equally	10% salt salt			
Hv	potonic Solutions: Circle	the correct answer					
	The concentration of the s		to the concentration outsi	de the cell			
	(A) less than	(B) greater than	(C) equal to				
22	Water molecules will move	e·					
	A) into the cell faster than out of (B) out of the cell faster than they (C) in and out of the cell at the						
			ove into the cell	same rate			
23.	cause the cell membrane to to shrivel. If the turgor pro- the turgor pressure is:	o press up against the cell	the inside of a PLANT cell. An in I wall and a decrease in turgor pres ne cell membrane will maintain its	ssure can cause the cell membrane			
	(A) normal	(B) decreasing	(C) increasing				
2.4	Y : 1 11 4 11	1 '11					
24.	In animal cells, the cell me		(C) amond & manifely 1				
	(A) shrivel up	(B) be normal	(C) expand & possibly b	burst			
	In the picture to the right, t (A) mostly out	(B) mostly in	cross the membrane will be (C) in and out equally	2% salt salt			
	pertonic Solutions: Circle						
26.	The concentration of the s (A) less than	olutes inside the cell is _ (B) greater than	to the concentration outs (C) equal to	ide the cell.			
	Water molecules will move into the cell faster than out the cell	t of (B) out of t	he cell faster than they ove into the cell	C) in and out of the cell at the same rate			
28.	Turgor Pressure is the pressure that water places on the inside of a PLANT cell. An increase in turgor pressure can cause the cell membrane to press up against the cell wall and a decrease in turgor pressure can cause the cell membrane to shrivel. If the turgor pressure is kept constant, the cell membrane will maintain its shape. In a hypertonic solution, the turgor pressure is: (A) normal (B) decreasing (C) increasing						
20	In animal calls the sall	mhrana will					
29.	In animal cells, the cell me (A) shrivel up	(B) be normal	(C) expand & possibly burst				
30.	In the picture to the right, t (A) mostly out	the movement of water act (B) mostly in	eross the membrane will be (C) in and out equally	30% salt			