Bio-Chem Review Unit 2 Cell/ Cell Transport			
Directions Use the book pages 208-217 for cell transport, and 190-207 for cells. You may also was	nt to		
look at any handouts or information gained in class.			
1. "Hypo" means "strength".			
2. transport requires the use of cell energy to move materials through the cel	l		
membrane against the concentration gradient.			
3 is a specific term referring to the movement of small particles or liquid	ls into		
the cell.			
4diffusion moves substances passively through the membrane from high			
concentrations to low concentrations using carrier proteins.			
5 is a specific term referring to the movement of large particles or solids	into		
the cell.			
6solutions have equal concentrations of solutes inside and outside the cell.			
7solutions have lower concentrations of solutes outside the cell.			
8solutions have higher concentrations of solutes outside the cell.			
9transport allows substances to enter the cell without any energy being us	ed from		
the cell.			
10. A cell that is 70 percent water is placed into a 30 percent sugar water solution, what will			
happen to the cell? Water will move of the cell .			
11. A concentration refers to the difference between the high and low			
concentrations.			
12. A cell that is 60 percent water is placed into a 30 percent sugar solution in water. What will ha	ppen to		
the cell? Water will move of the cell.			
13. A general term that refers to the bulk transport of large objects into the cell is			
14. Animal cells have no cell walls. When placed in hypotonic solutions animal cells			
may or burst.			
15. Because of osmosis, plant cells build up water pressure inside. This pressure is			
called			
16. Bulk movement of materials out of the cell is referred to as			
17. Cell membranes are selectively, which means that they allow only certain	n		
substances to pass through.			
18. Diffusion rates may be affected by: concentration, temperature, and			
19. Distilled water has no solutes and is therefore to all cells.			
20. Glucose enters cells through the process of diffusion.			
21. Hypertonic solutions cause water to flow of a cell. (like putting salt snail)	on a		
22. Hypotonic solutions cause water to flow the cell.			
23. If a cell that is 80 percent water is placed into a 30 percent sugar in water solution, what will h	appen		
to the cell? Water will move of the cell.			
24. If a cell that is 80 percent water is placed into a distilled water solution, what will happen to th	e cell?		
Water will move of the cell.			

_____and diffusion are examples of passive transport which 25. take place without cell energy. 26. Osmosis depends on the concentration gradient on each side of the membrane which is determined by the concentration of ______ dissolved in the water. 27. Some cells may pump out excess water through special organelles called vacuoles.
28. Special protein molecules called ______ proteins move some larger molecules through the membrane. 29. The bursting of cells due to osmosis is referred to as_____ 30. The cell membrane is composed of a double layer of ______ with some proteins embedded in and through it. 31. The current model of membrane structure is called the Fluid______ Model. 32. The diffusion of water through a selectively permeable membrane is termed 33. The prefix "hyper" means "______ strength". 34. The prefix "iso" means "_____". 35. The random motion of molecules (when first observed) was referred to as motion. 36. The random motion of molecules that occurs from a region of higher concentration to a region of 38. Water flows in and out of cells until it reaches in both directions in equal amounts.

39. Label this picture



40. What type of cell is this? Give evidence of how you know this.

41. Fill in the function below

Label	Structure Name	Structure Function
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42. Why is the cell membrane referred to as a "Fluid Mosaic"?

43. Explain what is meant by semi-permeable. How does this describe the cell membrane- give examples.



- 44. Be able to explain why cells are small and give evidence by showing the math.
- 45. Know the difference in prokaryotes and eukaryotes. Be able to give specific examples into the differences.
- 46. Cell Theory what are the 3 premises?