Cells	<u> </u>					
1.	A cell	is the _		and		unit of life.
2.	Bioche	emical f	unctions of ce	lls are dict	tated by	and specific
3.	Are ce	ells dive	rse?			
4.	Cells	size, sha	ape, and subc	ellular cor	nponents lea	d to differences in
5.	Cells h	have 3 k	pasic parts wh	at are the	у	
	a.	P	M		flexible out	er boundary
	b.	Cytopl	asm		co	ontaining organelles
	C.	N	DNA co	ontaining o	control center	
Plas	ma N	lembi	rane			
1.	What	are the	functions of th	e plasma	membrane	
	a.	It acts	as a	se	parating intra	cellular fluid and extracellular fluid
	b.	It is a	su	ırface		
		i.	Cell	conne	ecting to othe	er cells or a surface
		ii.	Cell		say	s the cell is from the body and aren't
			foreign			
		iii.		- for va	arious chemi	cals and hormones

	C.	Controls wha	ıt	_ and	the cell
	d.	Has enzyme	systems so i	it is the site of	
2.	What i	s the shape of	f the plasma	membrane?	
3.	Is this	membrane ve	ry flexible		
4.	What i	s the name of	this model		
5.	What a	are the 2 types	s of membrar	ne proteins	
	a.	I	proteins		
	b.	P	proteins		
6.	How a	re integral pro	teins attache	ed to the membrane	;
7.	What a	are the functio	ns of integra	l proteins	
	a.	T	P	_	
	b.	E			
	C.	R			
8.	How a	re peripheral p	oroteins attac	ched to the plasma	membrane
9.	What a	are the functio	ns of periphe	eral proteins	
	a.	E			
	b.	M	P	_	

c. Cell to connections	
d. Part of the glycocalyx, which are	for cell recognition
e. R	
Cell Junctions 1. Some cells are but most are bound	
2. What are the 3 ways can be bound to each other	
a. T junctions	
b. D	
c. G junctions	
3. How are tight junctions held together?	
4. What do tight junctions prevent?	
5. Where are tight junctions found?	
6. How are desmosomes held together?	
7. What areas do you find desmosomes in?	
8. What are gap junctions?	
9. What are these "tunnels" used for?	
10. These junctions are found in and m	uscle cells

Membrane Transport

1.	Membranes are
2.	2 different types of transport and transport
3.	Passive processes require no/some energy
4.	Passive transport that moves up/down a concentration gradient
5.	2 types of passive transport
	a. D movement of molecules down their concentration gradient with no
	energy expended
	b. F type of transport that usually occurs across capillary walls
6.	Simple diffusion happens when substances do what?
	a. This transports smaller materials such as fat-soluble vitamins, steroid-hormones,
	oxygen, and carbon dioxide
7.	Facilitate diffusion needs or to help transport glucose, amino
	acids, and ions
	a. How do carriers work?
	b. What are the 2 types of channels
	i. L always open and allow ions to pass through at anytime

		ii.	G must be stimulated by chemical or electrical means in
			order to open
		iii.	*note* water channels are called
8.	What i	s osmo	sis?
	a.	If solu	te concentration goes up water concentration goes
	b.	Tonici	ry is the ability of a solution to change the or of cells
		by alte	ering the cells volume
	C.	Isoton	ic solution-
	d.	Hyper	tonic solution-
	e.	Hypot	onic solution-
	f.	What	is crenation-
	g.	What	is lysing-
9.	Active	transpo	ort requires
10.	Active	transpo	ort moves up/down the concentration gradient
11.	When	does a	ctive transport occur?
12.	What i	s the di	fference between Primary and Secondary active transport?
13.	What i	s a rea	lly good example of the body's primary active transport?

14. Vesicular transport is the transport of large things within			
15. What are the 3 types of vesicular transport?			
a. E cell membrane surrounds something and brings it into the cell			
b. E vesicle merges with plasma membrane and transports			
something out of the cell			
16. What is "cell drinking"			
17. What is "cell eating"			