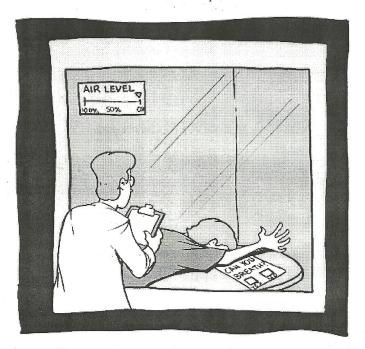
Science 8

Life Science Unit Test



Name: Key

- 1. You have the whole block to write the test.
- 2. You may use a 1 pg handwritten "cheat sheet" to assist you.
- 3. You may not use other notes or the textbook during the test. $\ \ .$
 - 4. You must write in pen or pencil.
 - 5. Please answer all questions.



Once again, our study proved inconclusive.

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Section 1: Fill in the Blank

Use the following words to fill in the blanks; each word will be used only once, some words will not be used at all:

	alveoli	diaphragm	osmosis	stimulus
		duodenum	peristalsis	stomach
	allergy		· .	vaccine
	antibody	epiglottis	plasma	
	artery	esophagus	platelet	vein
	capillary	eukaryotic	prokaryotic	virus
	cell membrane	lysosome	protein	white blood cell
	cell wall	large intestine	red blood cell	
	chloroplast	mitochondria	ribosome	
	cytoplasm	nucleus	small intestine	
1.	A(n) stimulus is	s anything which causes a living th	ning to respond.	
2.	The <u>Cell membrane</u> i	s the outermost layer of animal ce	lls.	
3.	The organelle which converts every	from the sun into glucose is a(n) _	chloroplast	
4.	Plant and animal cells are examples of	e eukaryotic	cells.	
5.	A non-living thing which tricks the l	nost cell into reproducing it is call	ed a(n) Virus	
6.	The organelle which cleans up the ce	ell is called a(n) 1 y s o S o m	<u>e</u> .	
7.	The movement of water from an area	a of high concentration to an area	of low concentration isO S M	iosis.
8.	The muscle which causes you to brea	ath is called the diaphr	a gm	
9.	The flap of skin which prevents food	from entering the trachea is called	d the epiglottis	
10.	In the lungs there are tiny air sacs in	which gas exchange occurs, they	are called alveoli	·
	The component of blood responsible			
	The first meter of the small intestine			
13.	The large intesti	1 is mainly responsible for re	-absorbing water into the body.	
14.	A way to give the body active immur	nity without ever having the disea	se is to get a(n) Vaccine	
15.	A(n) antibody	is produced by B-cells.		

16. Put in the order that blood would flow through them starting with the left atrium: left ventricle, right ventricle, right atrium, veins, arteries, capillaries, pulmonary vein, pulmonary artery, lungs

Section 2 Matching:

17. Match each step of the scientific method with a description of it (see example)

A:EXAMPLE	Choose a topic, do some research.	B
B: Observation	Think of one specific testable thing which would be true if the hypothesis was correct.	D
 C: Hypothesis	Determine if your hypothesis was supported or not.	F
D: Prediction	Test your prediction.	E
E: Experiment	EXAMPLE	A
F: Conclusion	An educated guess.	C

18. Match each function with the organelle which performs it. There are more organelles than functions.

A: Produce energy	Cell wall	C
B: Move things around cell	Cell Membrane	
C: Rigid structure which surrounds plant cells	Chloroplast	
D: Storage compartment	Nucleus	
E: Clean the cell	Vacuole	D
F: Produce proteins	Ribosome	F
	Vesicle	В
	Golgi body	
	Lysosome	E
	Mitochondrion	A

19. Match each body system's function with its name, there are more body systems than functions

A: Transports blood	Nervous System	D.
B: Produces children	Circulatory System	A
C: Creates a waterproof barrier around the body	Digestive System	
D: Detects changes in the environment and signals these changes to the body which then carries out a response	Respiratory System	F
E: Makes and releases hormones	Muscular System	
F: Major organs are the lungs	Excretory System	G
G: Removes liquid and gas wastes from the body	Immune System	
	Endocrine System	E
	Reproductive System	В
	Integumentary System	C
	Skeletal System	

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Saction	2.	Short	Answer
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20. List the 3 characteristics of a system

Made	of	ind;	vid	vol	ports	that	work	together
					syst			/
If ,	one	part	is	brok	on, 5)	istem	WON'T	work well

21. List the 4 stages of digestion in the order they occur

Ingesting	
Digesting	
Absorbing	
Eliminating	

22. List the 4 ways you can receive an infectious disease

Direct	Contact
Indirect	Contact
Water	and Food
Arimal	6:tes

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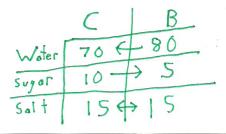
Characteristic	Example
Respond to environment	Put on coat when cold
Need energy	We need food
Grow	Baby grows into child into
Reproduce	Bacteria split into two
Get rid of waste	pee/poop

24. Give at least two differences between a plant and an animal cell.

Plant cells have cell walls
Plant cells have chloroplast
Plant cells have one large vacuole, animal cells
have several

25. A cell, which is composed of 70% water 10% dissolved sugar,15% dissolved salts, is put in a beaker which is 80% water, 5% dissolved sugar 15% dissolved salts. What will happen in terms of osmosis and diffusion if the cell membrane is permeable to water, sugar, and salts.

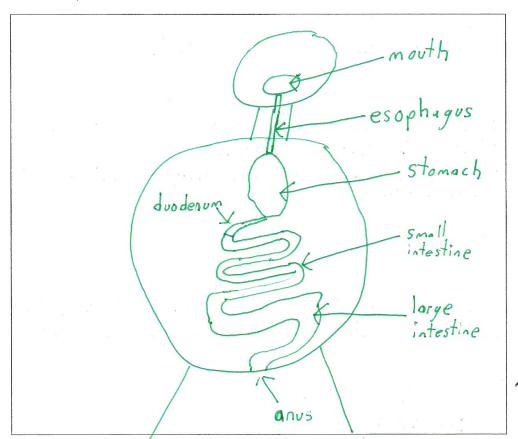
Water Flows into cell, sugar flows out of cell, Salt flows into and out of cell at some rate.



26. Explain the how active immunity is created

A	Fter	the	body	has	fought	off a	patho	9en	
Som	e of	the	Ba	T ce	lls which	h con	destroy	the	
Pa	thogen	rem	ain in	the	body.	If y	ou eve	er get	
+1	e sam		thogen	a go in	those	Bat	cells	multiply	
an	d ea	sily	destroy	the	pothogen		•		
		hy people h	ave allergic rea	ctions	()				12
Ī	mmune	2 5y	stem	attock	s over	reacts.			

28. Draw and label a diagram of the digestive system which includes: duodenum, esophagus, mouth, stomach, large intestine, small intestine and anus.



Section 4: Bonus, attempt only after all other questions have been completed.

29. Even though smallpox has been completely eliminated scientists still keeps samples of it in labs. Do you t is a good policy, or would it be better to just destroy all of it? Explain your reasoning.							
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