Name				Date	L	_ab Pd
Unit 1 Levels of Organization	Chapter 1.5	Maintenance	of Life		-	/56 pts
 Defin 	nd describe e homeosta	the major requirements n sis, and explain its impostatic mechanism	_			
			Lecture Notes	(10)		
Requirements	of organism	าร				
Maintenance o	of a stable in	ternal environment is c	its body fluids must remainalled and blo			
Homeostatic n	nechanisms	act through	feedback			
			Section Homewor	·k (46 <u>)</u>		
Match the de	inition to th	ne correct term. 1pt e	ach			
1. A	1. A state of balance in which the body's internal environment remains in the normal range					/ater
2. A	2. A form of energy that is the product of metabolic reactions					oods
3. The "normal" a particular value should be					C. 0	xygen
4. S	ubstances th	nat provide the body wi	th necessary chemicals in	addition to water.	D. H	eat
5. S	elf-regulatin	g control systems			E. P	ressure
		•	nce that corrects the imba		F. In	nternal Environmen
prov	ides the env			etabolic processes and sports substances within the		omeostasis omeostatic
8. A	force applie	d uniformly over a surf	ace		М	lechanisms
9. A	9. A muscle or gland that effects change in the body					eceptors
	10. A gas that makes up about 1/5 of ordinary air. It is used to release energy from food					et Point
	substances, thus driving the metabolic process. 11. The fluid surrounding an organisms body cells					ffectors
	12. Specialized cells that provide information about the environment.					egative Feedback
	•	<u> </u>		· ·		
13. Life depend	s on the ava	nilability of the five requir	ements (5 points)			
14. Both the		and	of these factors	are important (2 points)		
		internal environment is		(1 point)		

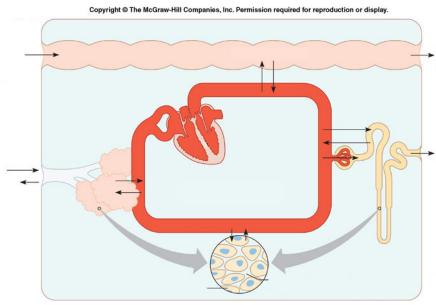
Unit 1 Levels of Organization Chapter 1.5

Maintenance of Life

_/56 pts

16. Why are observations of the vital signs important to nurses and physicians? (2 points)	
17. Define homeostasis. Include the function of receptors, effectors, and set point. (2 points)	
18. How is body temperature maintained at 37°C (98.6°F)? (2 points)	
19. Describe negative and positive feedback mechanisms. Give examples of each. (2 points)	

20. Label the diagram (14 points)



21. Describe the process of homeostasis by using the diagram on the right. Use body temperature as your example. (4 points)

