The Immune System: Immune System Overview

1.	Name the two major functions of the immune system:			
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2.	Pathogens are classified according to their size and where they are located in the body. List the five types			
	of pathogens from largest to smallest:			
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	•			
	•			
3.	Which type of pathogen is always intracellular?			
	Which type of pathogen is alway	ys extracellular?		
4–5.	Name the three main lines of defense and give an example of each:			
	Line of defense	Example		
6.	When the surface barriers (innate external defenses) are penetrated, what is the next line of defense?			
		_		
7.	This defense mechanism (named in question 6) identifies enemies by recognizing unique			
	to the pathogens. When they are overwhelmed, they secrete to mobilize the			
	adaptive defenses.			
8.	Name the four key ways adaptive defenses differ from innate defenses:			

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•	_		
•	_		
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B and T lymphocytes recognize p	pathogens by binding to them.	. What the lymphocyte recognizes is called	
the found	on the antigen.		
Specific B cells called	_ cells secrete	, which bind to the antigens.	
al Versus Cellular Immunity			
immunity is directed against pathogens in the extracellular fluid. This immunity involves			
lymphocytes.			
immunity is direc	eted against pathogens within	the cells. This immunity involves	
lymphocytes.			
Which type of immunity involves antibodies?			
Name three circumstances in whi	ich the T cells would be activa	ated against body cells:	
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	B and T lymphocytes recognize pathe found Specific B cells called all Versus Cellular Immunity immunity immunity immunity immunity is directly lymphocytes immunity is directly lymphocytes. Which type of immunity involve Name three circumstances in which immunity involves.	B and T lymphocytes recognize pathogens by binding to them the found on the antigen. Specific B cells called cells secrete all Versus Cellular Immunity immunity is directed against pathogens in the elementary immunity is directed against pathogens within lymphocytes. jumphocytes. Which type of immunity involves antibodies? Name three circumstances in which the T cells would be active.	