AP BIOLOGY ANIMALS FORM & FUNCTION ACTIVITY #4

NAME	
DATE	HOUR

## **BODY DEFENSES**

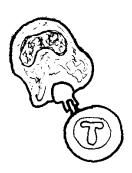
Nonspecific Defenses	
PHYSICAL BARRIERS	
Phagocytes	

INFLAMMATORY RESPONSE	
ANTIMICROBIAL PROTEINS	
ANTIMICROBIAL PROTLING	
SPECIFIC DEFENSES	
CELL-MEDIATED IMMUNITY	ANTIBODY-MEDIATED IMMUNITY

### **CELL-MEDIATED IMMUNITY**







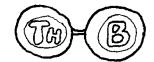








### **ANTIBODY-MEDIATED IMMUNITY**

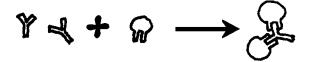


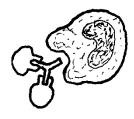




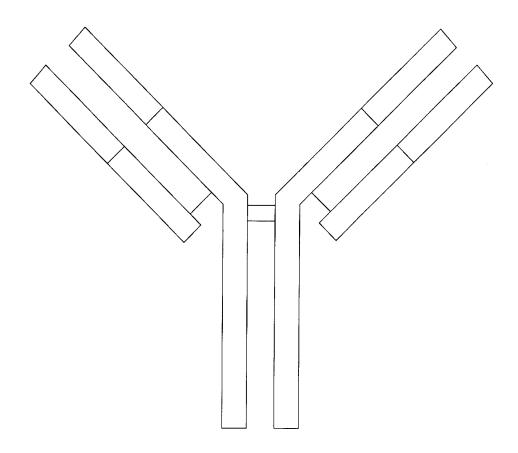








### ANTIBODY STRUCTURE



# QUESTIONS:

1.	Match	the description with the correct com	pound c	or process.
	A. B. C. D. E.	Antibodies Antigen Complement Cytokines Histamine	F. G. H. I. J.	Interferons Lysozyme Perforin Phagocytosis Pyrogens
		Enzyme that digests the cell walls in some mucus secretions	of many	kinds of bacteria; present
		Ingestion of invading organisms by	certair	n types of white blood cells
		Released by basophils and mast ce triggers dilation and increased		•
		Molecules that set the body's therr	nostat a	at a higher temperature
		Group of 20 or more blood proteins defense mechanisms; may an phagocytosis or lyse pathoger or exposure to antigens	nplify in	flammation, enhance
		Proteins produced by virus-infected produce chemicals that inhibit	•	
		Foreign molecule that triggers a sp	ecific re	esponse by lymphocytes
		Proteins, produced by plasma cells	that bi	nd to specific antigens
		Proteins or peptides that serve to s	stimulat	e lymphocytes
		Protein that forms pores in a targe	t cell's ı	membrane

A. B. C. D. E. F.	B lymphocytes Basophils Cytotoxic T cells Eosinophils Helper T cells Mast cells Memory B cells	H. I. J. K. L. M.	Memory T cells Monocytes Neutrophils NK cells Plasma cells Suppressor T cells T lymphocytes
	destroy microbes in infected to 5% of all white blood cells; exit circular macrophages; engulf and destroy of all white blood cells; defers invaders; target foreign compantibodies  Lymphocytes that destroy virus-infectls; destroy cells by attacking causing the cell to rupture  Cells found in connective tissue that	issues culation troy baches aga ounds of the country t	n and enlarge to become cteria and dead cells inst larger parasitic or pathogens coated with body cells and abnormal cell's membrane and
	White blood cells that produce and	release	e histamine
	Lymphocytes responsible for antibo	ody-me	diated immunity
	Lymphocytes responsible for cell-n	nediate	d immunity
	Cells that produce antibodies; deri	ved fro	m B cells
	Cells held in reserve; differentiate exposure to antigen	to form	plasma cells with second
	Responsible for cell-mediated imm bacteria, fungi, protozoa and		
	targeted antigen Release cytokines that coordinate s stimulate cell-mediated and a Remain in reserve; differentiate in	ntibody	-mediated immunity
	exposure to antigen Depress the action of other T cells suppression factors; limit the action in response to a single	and B of degree	cells by secreting of the immune system

Match the description/function with the correct cell.

2.

How is the primary immune response	different from the secondary imm
response?	amerene from the secondary films
Primary Immune Response	Secondary Immune Respo
How is active immunity different from	passive immunity?
How is active immunity different from  Active Immunity	passive immunity?  Passive Immunity
How is active immunity different from  Active Immunity	

A. Allergens B. Allergies	C. Autoimmune disorders D. Immunodeficiency disease
blocked Develop when the cells & tissues	ils to develop normally or the immune response is immune response mistakenly targets normal body s xcessive immune responses to antigens
Antigens that trigg	ger allergic reactions
AIDS/HIV	
•	coid arthritis, myasthenia gravis, multiple sclerosis, ype 1 diabetes, Graves' disease, Addison's disease, emia, lupus

Match the description with the correct term.

6.