## **READING NOTES CHAPTER 14: BLOOD**

		Name		
		Period	Due date	
Introduction (p. 526)				
Blood signifies life, for it co , wastes, and _ form the environments.	It, along	with the heart a	and blood vessels	
Recall that blood is a type of suspended in a liquid matrix average-sized adult has about	<ul> <li>Blood volume varies ba</li> </ul>	sed on many fac	cells that are ctors, but an	
If allowed to settle, the various one can speed up the process of blood to obtain a rough escalled a <b>hematocrit</b> . Most be plasma, and that leaves a not platelets. If it turns out that indicates that the person's in becomes what that thing may	s by centrifuging – or spectimate of percentages preceded samples are about	inning at a rapid sent within the sent within the sent within the sent white sent and sent white beautiful at a part of white beauti	rate – the sample sample. This is d cells,% blood cells and lood cells, that	
Blood cell origins (p. 527)				
Blood cells originate in which literally translates into but these stem cells are expotypes of blood cells are devesystem. A comprehensive of	o "blood forming". The posed to several different gralloped, including cells that	rocess is somew owth factors an are controlled	what complicated, d many different by the immune	
White blood cells (p. 534)				
White blood cells, orthat normally exist to do this (which have cells containing lack cytoplasmic granules).  nucleus, their primary functions abundance in a blood sample.	s, and they fall under two as a granular cytoplasm) and For each of the 5 types of ctions as to how they prote	main classes:d cells, note the a	(cells that	
Neutrophil	Basophil	Monocyt	e	
Eosinophil	Lymphocyte			

## Blood groups and transfusions (pages 545 – 549)

	*		at of <b>antigens</b> and <b>anti</b>		
			l do this in lab!) is the		
			tibodies are called this		
-		_	ur cells have <u>many</u> diff	_	
			ons – these antigens tha		
			igens of the g		
the g	roup. Simply pu	it, if you have that	antigen present on you	ır blood cells, you	
are that blood	type. It also mea	ans that your antib	odies will fight other a	ntigens that may	
come in contac	ct with your bloc	od. Fill in the table	below with the inforn	nation that applies	
to the followin	g blood types (y	ou will need to ref	erence tables 14.12 and	d 14.13):	
<b>Blood Type</b>	Has antigen:	Has antibody:	May donate to:	May receive from:	
A					
В					
AB					
0					
Electrocardio	gram (ECG) (p	. 570)			
	· / ·	,			
An ECG is a ro	ecording of the	chang	es in the muscle of the	heart. To record	
			and this allows an instr		
			cludes several deflection		
		F			
The first deflec	ction is called a	P wave, which ind	icates a depolarization	of atrial fibers	
		of the	-	01 401141 110 415	
that Will Ioua t		01 the	•		
The second ev	ent leaves a mar	k called the <b>ORS</b> (	complex which indica	tes a	
The second event leaves a mark called the <b>QRS complex</b> , which indicates a depolarization of the ventricular fibers just prior to the of the					
walls.					
	wans.				
The last event	is called a <b>T wa</b>	ve which signals t	he repolarization of the	Δ	
which ends the		ve, which signals t	ne reporarization of the	·	
willen chas the	Leo pattern.				
Rlood process	re (pages 582-58	RA)			
Dioou pressur	(pages 302-30	) T			
Blood pressure	e is the	the blood exerts	s against the inner wall	s of the blood	
-			When ventricles contra		
			lled the pres		
			body). When the vent		
truth what is h	saing monitored	is the pressure of t	is is called the he blood in the veins a	picosuit. (III	
heart).	ang momoreu	is the bressure of t	ne bibba in the veills a	s it returns to the	
ncart).					

Read the clinical application on page 584 on how to measure blood pressure!