

## REVIEW SHEET EXERCISE Blood

Vame Te	de A	mknecht Lab Time/Date
<ol> <li>What is</li> <li>What do</li> <li>S</li> <li>Use the</li> </ol>	etermines who	tume of an average-size adult male? <u>J6</u> liters; an average adult female? <u>H-)</u> liters liters blood is bright red or a dull brick red? <u>The bright red blood</u>
Key: a	. megakary	ocyte e. monocyte h. platelets
-	<u>+</u> 1	most numerous leukocyte  2. granulocytes (3)
	<u> </u>	also called an erythrocyte; anucleate formed element  4. phagocytic leukocytes (3)
	<u> </u>	5. agranulocytes
		precursor cell of platelets  cell fragments
		3. involved in destroying parasitic worms 4. releases histamine; promotes inflammation
	<u>9</u> 10	
	0.	2. primarily water, noncellular; the fluid matrix of blood  3. exits a blood vessel to develop into a macrophage
	<u>C</u>	<u>e</u> .d
***************************************	<u> </u>	14. the five types of white blood cells

4.	Define formed elements. CC	lls an	1 cell fra	gment.	s in th	re blood
	List the formed elements presen	it in the blood. $\overline{\underline{F}}$	-yth-ocytes	Leuk	ocytes,	Plotelets
6.	Describe the consistency and col  Clear-yellowisk  What is the average life span of  The everage life span of  They everage life span of  they everage life span of  Alegarity the leukocytes shown in	n Colo a red blood cell? Fe spa ble to	How does its anucleate con is 100-1 reproduce of the end of	ondition affect	this life span?	
<u>Ne</u>	entrophil Lymp	phocyte	monocyte	eosiv	wphil (	3 e so ph:
8.	Correctly identify the blood pati	hologies describe	d in column A by matching			ımn B:
	Column A			Col	umn B	
			in the number of WBCs	a.	anemia	
	2. at	bnormal increase	in the number of RBCs	b.	leukocytosis	
		ondition of too fe emoglobin defici	rw RBCs or of RBCs with encies	C.	leukopenia	
	(† 4. al	bnormal decrease	in the number of WBCs	ď.	polycythemia	

## Hematologic Tests

9. In the chart below, record information from the blood tests you read about or conducted. Complete the chart by recording values for healthy male adults and indicating the significance of high or low values for each test.

	Student test results	Normal values	Significance		
Test		(healthy male adults)	High values	Low values	
Total WBC count	No data		Leuhocytos	Leuhopenia	
Total RBC count	No data	hitrich hann - Erigenbyrg erroteret dichna kina enhana hann errainet antienet antiene un ang ga	polycythenia	onemia	
Hematocrit		47.0 ± 5		`	
Hemoglobín determination		13-189		P 29 C L 20.5 (Albifolio de Sembero non benero meno grano quença porque propiedo de La com-	
Bleeding time	No data		4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -		
Coagulation time	ann na march i ng mandachand dha dhadh da dh	2-6min	THE THE PARTY OF T	entremark income in 2. I stainmaken iha liist enemistadereniinterprinter et est 20.2.5.57	

10.	Why is a differential WBC count more valuable than a total WBC count when trying to determine the specific source of
	pathology? A differential NBC count is more valuable because
	it determines the amounts and percentages of
	each WBC type Total WBC count only shows the
11.	Discuss the effect of each of the following factors on RBC count. Consult an appropriate reference as necessary, and explain your reasoning.
	long-term effect of athletic training (for example, running 4 to 5 miles per day over a period of 6 to 9 months):
	It would increase the number of KBCs, because
	the body would adopt to carry more oxygen
	a permanent move from sea level to a high-altitude area: Increase # & RBG
	so body can carry more oxygen
12.	Define homatocrit. Proportion of blood that Consists of RBCs
13.	If you had a high hematocrit, would you expect your hemoglobin determination to be high or low?
	why if you had high RBCs, you would also
	have high heroglobin

have a reaction on the second exposure. The person has antigents  2 fex the 1st exposure  19. Record your observations of the five demonstration slides viewed.  a. Macrocytic hypochromic anemia: RBC's are transluxent in center  b. Microcytic hypochromic anemia: have a bullseye appearance	14.	What is an anticoagulant? Orevents the blood from clothing
What is the body's natural anticoagulant? Hepps: n  15. If your blood agglutinates with anti-A but not arith 8 sera, your ABO blood type would be		Name two anticoagulants used in conducting the hematologic tests. Sodown Citrale
What is the body's natural anticoagulant? Hepos in  15. If your blood agglutinates with anti-A but not anti-B sera, your ABO blood type would be		and Hepsin
To what ABO blood groups could you donate blood?  From which ABO donor types could you receive blood?  Which ABO blood type is most common?  Least common?  Why?  Chas no and gens  16. What blood type is theoretically considered the universal donor?  Why?  Chas no and gens  17. Assume the blood of two patients has been typed for ABO blood type.  Typing results Mr. Adams:  Blood drop and anti-A serum  Blood drop and anti-B serum  On the basis of these results, Mr. Adams has type blood, and Mr. Calhoon has type blood.  18. Explain why an Rh-negative person does not have a transfusion reaction on the first exposure to Rh-positive blood to have a reaction on the second exposure. The Reson has an inference of the second exposure of the demonstration slides viewed.  a. Macrocytic hypochromic anemia: RBC's are transfused appearance.		What is the body's natural anticoagulant? Heposin
From which ABO donor types could you receive blood?  Which ABO blood type is most common?  Least common?  AB  16. What blood type is theoretically considered the universal donor?  Why?  Why?  Why?  Why?  Why?  It is not a secure of the universal donor?  Why?  Why?  Why?  Why?  Why?  It is not a secure of the universal donor?  Why?  Why?  Why?  Why?  Why?  It is not a secure of the universal donor?  Why?  Why?  Why?  Why?  Why?  Why?  Why?  Why?  Blood drop and anti-B sorum  Blood drop and anti-B sorum  Typing results  Mr. Calhoon:  Blood drop and anti-B sorum  Anti-B sorum  Don the basis of these results, Mr. Adams has type  Blood drop and anti-B sorum  Blood drop and anti-B sorum  Blood drop and anti-B sorum  Anti-B sorum  Con the basis of these results, Mr. Adams has type  Blood drop and anti-B sorum	15.	If your blood agglutinates with anti-A but not anti-B sera, your ABO blood type would be
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Cickle classed		b. Microcytic hypochromic anemia: have a bullseye appearance
Cityla		
c. Sickle cell anemia: Sickle Shape		c. Sickle cell anemia: Sickle Shaped

	d. Lymphocytic leukernía (chronic): <u>incsec sed</u> WBC
	e. Eosinophilia: increesed eosinophils
	Which of the slides above (a through e) corresponds with the following conditions?
	1. iron-deficient diet
	2. a type of bone marrow cancer
	3. genetic defect that causes hemoglobin to become sharp/spiky
	4. lack of vitamin B <sub>12</sub>
	5. a tapeworm infestation in the body
	6. a bleeding ulcer
	Provide the normal, or at least "desirable," range for plasma cholesterol concentration.
21.	Plasmapheresis is a procedure in which blood is removed, its plasma is separated from the formed elements, and the formed elements are returned to the patient or donor. Kidney transplants usually require that the donor and recipient have the same blood type. If plasmapheresis is administered to the patient before and after the transplant surgery, rejection of the kidney is unlikely to occur. Explain why.
	It removes the antibodies from the donor cells, so the patient's body exepts:
	cells, so the optient's body proepts it
22.	Bleeding disorders are usually a result of thrombocytopenia, a deficiency of platelets. Considering the mechanism of hemo-
	stasis, explain why thrombocytopenia could lead to abnormal bleeding. IF 400 hove
	low platelets, it will be hard For your
	blood to clot leading to abnormal
	Dleeding