## Anatomy and Physiology II Exam #2 Review

<ol> <li>Mix and match</li> <li>Explain the relative percentages of plasma, erythrocytes, leucocytes, and thrombocytes in the blood in a healthy person:</li> </ol>
Plasma Erythrocytes
Luekocytes
Thrombocytes —
3A. What is hematocrit and how is it measured? What does a low hematocrit indicate?
What are the common causes of anemia?
Hematocrit –
How is it measured –
Common causes of anemia_
l <u>.</u>
2.
3
4
5
3B. What does a low reticulocyte count indicate?
1. About what percentage of the lougageter are neutrophile lymphogeter manageter
4. About what percentage of the leucocytes are, neutrophils, lymphocytes, monocytes,
eosinophils, and basophils in a healthy person.
Neutrophils –
Lymphocytes –
Monocytes –
Eosinophils –
Basophils –

5-1 How would you tell the difference between an erythrocyte, lymphoc	yte and a
neutrophil cell:	
5-2 How would you tell the difference between an basophil, monocyte	
thrombocyte:	
6. What are the functions of erythrocytes, neutrophils, lymphocytes, mor	nocytes,
eosinophils, basophils, and thrombocytes.	
Erythrocytes –	
Neutrophils –	
Lymphocytes –	
	•
Monocytes –	
	-
Eosinophils –	
<u> Eosinophils –                                    </u>	
Do combile	
Basophils –	
Thrombocytes –	_
7-1. If a person has A+ blood, what types can they receive?	
7-1. If a person has B- blood, what types can they receive?	
7-3. What types can receive B- blood?	
7-4 What types can receive A+ blood?	

8. What problem can occur if a Rh- mother has a RH+ baby. What is rhogam and how
does it prevent the above problem?
<del></del>
<del></del>
9. About what percent of the plasma proteins are albumins, globulins, and fibrinogen.
Albumins –
Alpha & Beta Globulins –
Fibronogen –
10A. What functions do albumins, alpha and beta globulins, and gamma globulins have?
Albumins –
Alpha & Beta Globulins –
Gamma Globulins –
10B. What do VLDL, LDL, and HDL do? How is your total cholesterol calculated? What
is high total cholesterol? What percentage of your total cholesterol should you HDL be?
How can you increase your HDL?
VLDL does –
LDL does –

4	

HDL doe	<u> </u>
What is	high cholesterol?
What pe	rcentage should be HDL?
How car	you increase your HDL?
-	ain what happens in the stages of hemostasis?
2	
3	
a.	
b.	
c.	
11B. Wha	t is the function of fibrinogen and explain in detail how it is activated to form
<u>Function</u>	<u>:</u>
Activation	<u>on:</u>
a. <u> </u>	
b	

,	
<b>c.</b>	
ı	
11C. H	ow does fibrinolysis occur?
12. Wh	at effects do heparin and histamine have?
13A. D	escribe the layers of the pericardium and the heart. What are functions of the
	different layers.
	· 
2.	

 Vhat are t	he layers of the heart wall and what are the functions of the differe
1	
ich arteri	ies carry blood to the heart?
	es carry blood to the ficult.
	name, composition and function of the layers of arteries:

15A-2. What layers are in veins:
15A-3. Which contract more and why, arteries or veins?
15A-4. How are capillaries different then arteries? What layers do they have?
15A-5. How are large arteries different then medium sized arteries?
15A-6. Identify the order that blood travels through the vessels?
15C. Explain how blood vessels, skeletal muscle, and movements of the diaphragm help move blood through the vessels.  Arteries —
Skeletal muscle
Respiratory pump_

15D. How do sympathetic nerves affect vasoconstriction?
16. Diagram how blood moves through the heart to the lungs and the body. Name and show the location of heart valves on your diagram. Name the major vessels that enter and leave the heart.
17. Explain the order in which the chambers in the heart contract.
18-1. Explain how and why heart valves close?

18-2. What do the papillary muscles do?
18-3. Why aren't there any heart valves where the blood enters the atria?
19-1. Explain the difference between systolic blood pressure and diastolic blood pressure.
19-2. What causes a heart murmur?
19-3. What causes the heart sounds?
20A. Give the process of how the heart controls it's contractions. Identify the
components, what they do, how electricity flows, etc.
1.
2.
4.
20B. How do sympathetic nerves affect the heart rate?

20B-3 What do Beta-blockers do and which system do they affect?
21-1. How does extracellular concentrations of K <sup>+</sup> affect heart contractions?
21-2. How does extracellular concentrations of Ca <sup>++</sup> affect heart contractions?
22-1. Draw an image of the heart electrical signals for a normal heart beat.
22-2. If someone has an abnormally deep Q wave, what problem is that likely to indicate?
22-3. If someone's Q wave is below the baseline and has a low T wave, what problem does that likely indicate?
22-4. If the QRS is spread wide, what problem does that likely indicate?