

# Study Guide for Chapter 11 + 12 Test – Anatomy and Physiology

## Chapter 11 - Blood

1. Know the names of different types of blood cells and their functions. Know how to identify different types of blood cells.

## Chapter 12 – The Cardiovascular System

1. Know the anatomy of the heart. Remember to go over Lab 27 and RYK.
2. Know the systemic and pulmonary circulation.
3. The anatomy of the three types of blood vessels-know details about the arteries, veins, and capillaries.
4. Know the differences between arteries and veins.
5. Know that arteries branch into arterioles and venules combine to form veins.
6. What is the largest artery and the largest vein(s) in the body?
7. Which blood vessels nourish the myocardium of the heart?
8. Why is it beneficial for blood flow to be so slow in the capillaries?
9. What is blood pressure? How is blood pressure measured? Where is it the highest in the body and where is it lowest?
10. Which factors affect blood pressure?
11. In veins, blood pressure is lower than arteries, and the flow of blood is opposing the force of gravity. What helps blood return to the heart through the venous system?
12. Which area of the brain controls heart rate?
13. Know the effects of the autonomic nervous system on heart rate.
14. Know the major arteries of the body. Be able to identify blood vessels on a diagram Also, know which part of the body is being supplied by these arteries.
15. Know the major veins of the body. Be able to identify blood vessels on a diagram. Also, know which part of the body is being drained by these veins.
16. Know the three major branches of blood vessels coming off the aorta. Know the difference between blood supplies to the left versus the right side of the body.
17. Know fetal circulation. Which structures allow blood to bypass pulmonary circulation in a developing fetus? What are these structures called after they have been closed off?
18. What happens if the foramen ovale does not close (hint: what is cyanosis?)
19. What is atherosclerosis, hypertension, varicose veins, stroke, congestive heart failure?

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