

Circulatory System Test Review

Anatomy and Physiology (95 pts)

1. What is the function of valves?
2. When the blood enters the heart, what chamber does it come into?
 - a. When the blood exits the heart, what chamber does it exit from?
3. What are functions of blood?
4. The life span of erythrocytes is
5. What is:
 - a. Thrombosis?
 - b. Embolism?
6. What blood disease makes one resistant to malaria?
7. What blood type is the universal donor?
8. What is a heme?
9. What blood cell contains hemoglobin?
10. What is the anatomical pacemaker?
11. When the SA node fires, what happens?
12. How are electrical impulses spread out into ventricular myocardium?
13. The conduction system (for heartbeat impulses) travels toward what feature?
14. Which which type of valve closes when
 - a. Ventricles contract?
 - b. Atria contract?
15. The heart has its own blood vessels. This is called _____ circulation.
16. The sounds made by the heart are caused by
17. A newborn's heart rate is _____ than an adult heart rate.
18. An athlete's resting heart rate is _____ than the average resting heart rate.
19. How difficult is it to bind oxygen to hemoglobin?
20. How much of the blood is:
 - a. Plasma?
 - b. Erythrocytes?
 - c. Leukocytes/Thrombocytes?

21. Where are erythrocytes produced? Leukocytes?

22. What are the steps to hemostasis?

23. Give a short description of the following diseases/disorders:

- a. Anemia
- b. Arrhythmia
- c. Atherosclerosis
- d. Congestive heart failure
- e. Heart Murmur
- f. Hemophilia
- g. Jaundice
- h. Leukemia
- i. Myocardial Infarction
- j. Porphyria

24. Define the following:

- a. artery
- b. vein
- c. pulmonary circuit
- d. systemic circuit
- e. pericardium
- f. myocardium
- g. epicardium

25. Know the properties of the different blood types. Be able to determine who a blood type can donate to and accept from. (Ex: A+ blood can donate to and accept from what blood types?)

26. Starting at the right atrium, describe the flow of blood through the heart and two circuits. (16 points)

27. In the following chambers, is the blood deoxygenated or oxygenated?

- a. right atrium
- b. right ventricle
- c. left atrium
- d. left ventricle

28. In the following chambers, what circuit does the blood come from?

- a. right atrium
- b. left atrium

29. In the following chambers, what circuit does the blood go to?

- a. right ventricle
- b. left ventricle