**Test Date:** Thursday April 20

**Anatomy & Physiology Study Guide**

**Chapter 11: The Cardiovascular System & Blood**

* **Objectives**
	+ Describe the location of the heart in the body and identify its major anatomical areas and connective tissues on a model, specimen, picture, or diagram. (anterior and frontal views)
	+ Trace the pathway of oxygenated blood and deoxygenated blood through the heart and body.
	+ Compare the pulmonary and systematic circuits.
	+ Identify the four heart valves on a diagram, where they lead, and their functions.
	+ Explain what information can be gained from an electrocardiogram and interpret basic ECGs
	+ List and describe 4 factors that affect blood pressure and discuss in what situations these might apply.
	+ Take and interpret blood pressure readings.
	+ Take and interpret heart rate readings.
	+ Differentiate between systolic and diastolic blood pressure.
	+ Compare and contrast the function of veins and arteries.
	+ Describe the ABO and Rh blood groups and how blood type is passed down.
	+ Identify the universal donor and universal acceptor for blood types.
	+ Discuss the issue of Rh factor in pregnancy.
	+ Complete Punnett Square diagrams to predict the likelihood of blood types.
	+ Describe blood type in terms of the presence or absence of antigens (proteins) on the erythrocytes.
	+ Read and interpret blood typing data.
* **Vocabulary**
	+ Systemic Circulation
	+ Pulmonary Circulation
	+ Arteries
	+ Veins
	+ Pericardium
		- Visceral pericardium
		- Parietal pericardium
	+ Epicardium
	+ Myocardium
	+ Endocardium
	+ Heart
		- Atria
			* Right atrium
			* Left atrium
		- Ventricles
			* Right ventricle
			* Left ventricle
		- Septum
		- Tricuspid valve
		- Bicuspid valve
		- Pulmonary valve
		- Aortic valve
		- Superior vena cava
		- Inferior vena cava
		- Chordae tendinae
		- Papillary muscles
		- Pulmonary arteries
		- Pulmonary venis
		- Aorta
		- Apex
		- Base
		- Auricles
	+ Blood Pressure
		- Systolic
		- Diastolic
	+ ECG
	+ Arrythmia
		- Tachycardia
		- Bradycardia
		- Fibrilation
	+ Mitral Valve Prolapse
	+ Heart Murmurs
	+ Myocardial Infarction
	+ Atherosclerosis
	+ Hypertension
	+ Hypotension
	+ Stenosis
	+ Ventricular Septal Defect
	+ Alleles
	+ Genotype
	+ Phenotype
	+ Antigen
	+ Antibody
	+ Rh Factor
* **Helpful Diagrams**













